

MISSOURI SPECIES AND COMMUNITIES* OF CONSERVATION CONCERN

Checklist



Photo: Scott Faiman. For species list, see inside cover.

JANUARY 2022

*Terrestrial Natural Communities. Does not include aquatic, geologic, or cave communities.

SCI077

Species appearing on cover:

Threeridge (*Aamblema plicata*), Monkeyface (*Quadrula metanevra*), Deertoe (*Truncilla truncate*), Pistolgrip (*Tritogonia verrucosa*), Pimpleback (*Cyclonaias pustulosa*), Purple Wartyback (*Cyclonaias tuberculata*), Mucket (*Actinonaia ligamentina*), Mapleleaf (*Quadrula quadrula*), Butterfly (*Ellipsaria lineolata*), Plain Pocketbook (*Lampsilis cardium*), Pink Heelsplitter (*Potamilus alatus*), Yellow Sandshell (*Lampsilis teres*), Black Sandshell (*Ligumia recta*) S2, Round Pigtoe (*Pleurobema sintoxia*), Wabash Pigtoe (*Fusconaia flava*), Threehorn Wartyback (*Obliquaria reflexa*)

CONTENTS

ACKNOWLEDGMENTS	2
INTRODUCTION	3
TERMS AND DEFINITIONS	4
SPECIES CHANGES.....	8
TERRESTRIAL NATURAL COMMUNITIES.....	11
THREATENED AND ENDANGERED SPECIES IN MISSOURI	15
SPECIES AND STATUSES	
LICHENS	17
LIVERWORTS AND HORNWORTS	17
MOSSES	18
FERNs AND FERN ALLIES	21
FLOWERING PLANTS	22
FLATWORMS.....	34
MOLLUSKS	34
ARACHNIDS.....	36
CRUSTACEANS	36
MILLIPEDES.....	37
INSECTS.....	38
FISH	41
AMPHIBIANS	43
REPTILES.....	43
BIRDS (See Appendix A for tracking criteria)	43
MAMMALS	44
REFERENCES.....	46
FOR MORE INFORMATION (including Webpage and Citation).....	50
APPENDIX A: BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EOS	51
APPENDIX B: MISSOURI BIRD CONSERVATION PLAN FOCAL SPECIES	53
PLANTS OF CONSERVATION CONCERN REPORTING FORM	54
ANIMALS OF CONSERVATION CONCERN REPORTING FORM.....	55
TERRESTRIAL NATURAL COMMUNITY REPORTING FORM	56
AQUATIC NATURAL COMMUNITY REPORTING FORM.....	57

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NOTICE: Please submit reports of all sightings of species and natural communities listed in this checklist on the forms provided in the back of this checklist. Special criteria apply to birds and reports should follow the guidelines listed in Appendix A.

The Missouri Bird Plan Focal Species (Appendix B) provides a list of states priority breeding bird species that can be used to guide management actions, goals and objectives. Not all species listed in Appendix B are tracked in the Natural Heritage database.

INTRODUCTION

The Missouri Department of Conservation (MDC) is charged with the protection and management of Missouri's fish, forest, and wildlife resources. In the brief time since the settlement of Missouri, many plants and animals have declined to levels of concern and some have disappeared entirely. The species cataloged in this checklist represent 22 percent of the native vascular plants, 14 percent of the nonvascular plants, 28 percent of the vertebrate animals, and an unknown percentage of the native invertebrate species in Missouri. Together, these animals, plants, and natural communities represent Missouri's biological diversity—a natural heritage worth protecting.

The Department maintains two references relating to the status of listed plants and animals in Missouri: the *Missouri Species and Communities of Conservation Concern Checklist (Checklist)* and the *Wildlife Code of Missouri (Code)*. The *Checklist* is used mainly for planning and communication purposes. All native animal species in the State of Missouri are protected as biological diversity elements unless a method of legal harvest, harm or take is described in the *Code*. All native plant species in the State of Missouri are protected as biological diversity elements only on land owned by the Missouri Department of Conservation. Species listed in the *Code* under 3 CSR 10-4.111 and all federally listed endangered and threatened plants and animals protected by the Endangered Species Act of 1973 (ESA) are protected by the State Endangered Species Law 252.240. Some additional plants and animals in this *Checklist* also appear in the *Code* and are afforded special legal protection.

How to use the checklist

The checklist, developed with the cooperation of specialists throughout the state, is a list of plants, animals, and natural communities that MDC is particularly concerned about due to population declines or apparent vulnerability. The global and state ranks indicate the level of concern for each Element's (i.e., a species or type of natural community) continued existence throughout its range and in Missouri, respectively. Global ranks are assigned by the Natural Heritage/Conservation Data Center personnel and/or NatureServe. State Ranks in Missouri are assigned by the Missouri Natural Heritage Program within the Missouri Department of Conservation.

The Global and State Ranking System methodology was developed The Nature Conservancy and is now maintained by NatureServe, in association with the Network of Natural Heritage Programs and Conservation Data Centers.

The checklist is arranged by broad taxonomic groups (e.g., terrestrial natural communities, flowering plants, insects, fish, and mammals). Within each group, species are arranged alphabetically by their scientific names and terrestrial natural communities by community type. Each Element is identified by its scientific name, common name, state rank, global rank, state status, and federal status.

TERMS AND DEFINITIONS

FEDERAL STATUS

The federal status is derived from the provisions of the Endangered Species Act of 1973, as amended, which is administered by the U.S. Fish and Wildlife Service (USFWS). Passage of the Endangered Species Act of 1973 gave the United States one of the most important laws ever enacted by any country to prevent the extinction of imperiled animals and plants. Protecting endangered and threatened species and restoring them to the condition where their existence is no longer jeopardized is the primary objective of the USFWS Endangered Species Program.

E: Endangered: Any species which is in danger of extinction throughout all or a significant portion of its range.

T: Threatened: Any species which is likely to become endangered within the foreseeable future.

C: Candidate: Plants or animals which USFWS is reviewing for possible addition to the list of endangered and threatened species.

PE: Proposed Endangered: Species officially proposed for listing as endangered; final ruling not yet made.

PT: Proposed Threatened: Species officially proposed for listing as threatened; final ruling not yet made.

SAT: Threatened due to similarity of appearance: Species is listed for its protection due to similarity of appearance with another listed species. Species listed as SAT are not biologically threatened.

STATE STATUS

Rule 3CSR10-4.111 of the *Wildlife Code of Missouri* and certain state statutes apply to state *Code*-listed species.

E: Endangered: Determined by MDC under constitutional authority.

GLOBAL RANK (GRANK)

Global ranks are assigned and maintained by the Natural Heritage/Conservation Data Center and/or NatureServe. A numeric rank (G1 through G5) of relative imperilment based on standard rank factors:

- the estimated number of Element Occurrences (EOs) throughout the Element's global, national, or subnational range;
- the estimated numbers of those EOs with good viability;
- the estimated abundance of the Element (measured in terms of population for species Elements as well as occupied area or linear distance for both species and communities);
- the estimated size of the Element's range;
- the short- and long-term trends in the Element's distribution over its range;
- the estimated number of adequately protected EOs throughout the Element's range globally, nationally, or subnationally;
- the scope, severity, and immediacy of threats to the Element;
- the vulnerability of the Element to intrusion; and
- the specificity of the Element's environmental requirements.

GLOBAL RANK (Cont.)

G1: Critically Imperiled: At very high risk of extinction or elimination due to extreme rarity, very steep declines, or other factors.

G2: Imperiled: At high risk of extinction or elimination due to very restricted range, very few populations or occurrences, steep declines, or other factors.

G3: Vulnerable: At moderate risk of extinction or elimination due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors.

G4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5: Secure: Common; widespread and abundant.

G#G#: Range Rank: A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

GU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Note: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.

GNR: Unranked: Global rank not yet assessed.

GH: Possibly Extinct: Known from only historical occurrences but still some hope of rediscovery. There is evidence that the species may be extinct but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct.

GX: Presumed Extinct: Not located despite intensive searches and virtually no likelihood of rediscovery.

SUBRANK:

T#: Infraspecific Taxon (binomial): Rank applies to a subspecies or variety. Rules for assigning T-ranks follow the same principles outlined above.

QUALIFIERS:

?: **Inexact Numeric Rank:** Denotes inexact numeric rank; it is not used in combination with range ranks, GH, or GX.

Q: Questionable Taxonomy: Distinctiveness of this entity as a taxon at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority (numerically higher) conservation status rank.

STATE RANK

Assigning national and subnational conservation status ranks for species and ecosystems (ecological communities and systems) follows the same general principles as used in assigning global status ranks. Subnational ranks are assigned and maintained by the Missouri Natural Heritage Program (MONHP).

S1: Critically Imperiled: Critically imperiled in the state because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.

S2: Imperiled: Imperiled in the state because of rarity due to very restricted range, very few populations or occurrences, steep declines, or other factors making it very vulnerable to extirpation from the state.

S3: Vulnerable: Vulnerable in the state due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors making it vulnerable to extirpation.

S4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5: Secure: Common, widespread, and abundant in the state.

S#S#: Range Rank: A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

SU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S?: Unranked: State rank not yet assessed.

SE: Exotic: An exotic established in the state; may be native in nearby regions (e.g., house finch or catalpa in eastern U.S.).

SA: Accidental: Accidental or casual in the state, in other words, infrequent and outside its usual range. Includes species (usually birds or butterflies) recorded once or only a few times at a location. A few of these species may have bred on the one or two occasions they were recorded. Examples include European strays or western birds on the East Coast and vice-versa.

SP: Potential: Potential that the species occurs in the state, but no extant or historic occurrences are accepted.

SR: Reported: Species reported in the state but without a basis for either accepting or rejecting the report, or the report not yet reviewed locally. Some of these are very recent discoveries for which the Program has not yet received first-hand information; others are old, obscure reports.

SRF: Reported Falsely: Species erroneously reported in the state and the error has persisted in the literature.

STATE RANK (Cont.)

SH: Possibly Extirpated: Known from only historical records but still some hope of rediscovery. There is evidence that the species may no longer be present in the state, but not enough information to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the state.

SX: Presumed Extirpated: Species is believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

QUALIFIERS:

?: Inexact or Uncertain: Denotes inexact or uncertain rank; this should not be used with range ranks, SH, or SX.

SPECIES CHANGES

STATUS CHANGES

PLANTS

Callirhoe bushii (Bush's Poppy Mallow) from S2 to S1. Recent surveys and lack of new documented populations indicate that this species is critically imperiled in MO. It has been observed at only two locations in the past twenty years.

Carex sychnocephala (A sedge) from SH to S1. Known only from a single location in Missouri, a recent discovery Steve Buback indicated that the population was doing well and was the first documented observation since 1988.

Chasmanthium sessiliflorum (A Spike Grass) from SX to S1. Previously recorded in MO from a single historic collection that has been considered extirpated. Susan Farrington recently discovered the species in Shannon County and noted proximity to a trail indicating a possible introduction by vehicular traffic.

Trifolium stoloniferum (Running Buffalo Clover) is no longer included on the federal Endangered Species List. It is still currently listed as a State Endangered Species.

AMPHIBIANS

Cryptobranchus alleganiensis alleganiensis (Eastern Hellbender) to federal Endangered. On 07 April 2021, the U.S. Fish & Wildlife Service listed Missouri's Distinct Population Segment (DPS) of the Eastern Hellbender as Endangered.

REPTILES

Macrochelys temminckii (Alligator Snapping Turtle) to federal Proposed Threatened. On 08 November 2021, the U.S. Fish & Wildlife Service 12-month finding document proposed to list Alligator Snapping Turtles as Threatened throughout its North American range. Final ruling should occur in the 2022.

BIRDS

Falco peregrinus (Peregrine Falcon) is no longer listed as a State Endangered Species.

ADDITIONS

PLANTS

Chimaphila maculata (Spotted Wintergreen) added as S1. A recent discovery of the species was documented by Dacoda Maddox (USFS) in Shannon County. The site was described as a dry rocky upland and east facing slope.

Eleocharis coloradoensis (Dwarf Spikerush) added as S1. A specimen collected by Julian Steyermark in 1934 considered to be *E. parvula* was redetermined by Galen Smith while working on the Flora of North America Project (1999). It was collected from "marshy ground along spring branch in brackish soil" in Cooper Co.

Eleocharis elliptica var. *elliptica* (Elliptic Spikesedge) added as S1. Four locations have been recently documented in Missouri (St. Louis, St. Francois, Wayne, and Shannon Counties).

CRUSTACEANS

Faxonius neglectus chaenodactylus (Gap Ringed Crayfish) added as S3, endemic to southern Missouri and extreme northern Arkansas, largely in one river drainage. New genetic data indicates should be elevated to full species.

CRUSTACEANS (Cont.)

Procambarus liberorum (Osage Burrowing Crayfish) added as S2S3 is a primary (or “true”) burrowing crayfish that was previously known to be endemic to only Arkansas and a very small part of Oklahoma. A recent predictive modeling effort predicted that it might exist in southwest Missouri, and follow-up sampling detected the species at 2 of 35 sampled sites there in summer of 2021 (sites were 26.5 miles apart). It likely has a somewhat greater distribution (more than two locations in SW MO), but no further sampling has occurred, and probably will not occur for several years.

INSECTS

The following species are listed as part of the Midwest Association of Fish and Wildlife Agencies Regional Species of Greatest Conservation Needs assessment completed in 2021. Most are of Regional as well as State concern.

<u>Scientific Name</u>	<u>Common Name</u>	<u>Rank</u>
<i>Adalia bipunctata</i>	Two Spotted Lady beetle	SH
<i>Atrytone arogos</i>	Arogos Skipper	S2
<i>Atrytonopsis hianna</i>	Dusted Skipper	S3
<i>Catocala abbreviatella</i>	Abbreviated Underwing	S2S3
<i>Catocala dulciola</i>	Quiet Underwing	S1S2
<i>Catocala whitneyi</i>	Whitney's Underwing	S1
<i>Coccinella novemnotata</i>	Nine-spotted Lady Beetle	SH
<i>Erynnis martialis</i>	Mottled Duskywing	S3
<i>Eucosma bipunctella</i>	Two-spotted Eucosma	S2S3
<i>Hadena ectypa</i>	Starry Campion Moth	S1
<i>Hystrichophora loricana</i>	An Olethreutine Moth	S1?
<i>Lasioglossum fedorense</i>	A Sweat Bee	S1
<i>Lytrosis permagnaria</i>	A Geometrid Moth	S1
<i>Megachile ingenua</i>	A Leafcutter Bee	S1
<i>Osmia illinoensis</i>	A Mason Bee	S1
<i>Papaipema beeriana</i>	Blazing Star Stem Borer	S2
<i>Papaipema cerina</i>	Golden Borer Moth	SU
<i>Papaipema sciata</i>	Culvers Root Borer	SU
<i>Papaipema silphii</i>	Silphium Borer Moth	S1
<i>Photuris missouriensis</i>	Roaring River firefly	S1?
<i>Schinia bina</i>	Bina Flower Moth	S2S3
<i>Schinia lucens</i>	Leadplant Flower Moth	S1
<i>Svastra comptula</i>	A Sunflower Bee	S1
<i>Tebenna silphiella</i>	Rosinweed Moth	S1
<i>Tenaspis angularis</i>	A Firefly	S1?
<i>Tricholita notata</i>	Marked Noctuid	S2S3

DELETIONS

PLANTS

Malvastrum angustum (Yellow False Mallow) from S3 to S4. Recent surveys and several opportunistic discoveries primarily by Krista Noel and Lisa San Diego indicate that this plant is a more common occurrence and should no longer be tracked by the Missouri Natural Heritage Program.

BIRDS

Athene cunicularia (Burrowing Owl) Extirpated from Missouri. Rare transient in west, accidental in east; accidental summer resident in northwest, accidental winter resident and visitant. Last observed in Missouri, spring 2013.

Campephilus principalis (Ivory-billed Woodpecker) Extinct. USFWS proposed rule to delist due to extinction (9/29/2021). Formerly an uncommon permanent resident in the Mississippi Lowlands north to at least St. Louis. Last observed in Missouri, May 1886, near Forest Park. The last definite record was in 1944, northeastern Louisiana.

Chlidonias niger (Black Tern) Extirpated from Missouri. Common transient in west, uncommon in east, former summer resident. Last observed in Missouri, May 1857, St. Louis.

Corvus corax (Common Raven) Extirpated from Missouri. Former permanent resident. Last known nesting record in Missouri, 1901.

Elanoides forficatus (Swallow-tailed Kite) Extirpated from Missouri. Casual transient and summer visitant; former summer resident statewide. Last observed in Missouri, August 1872, St. Louis.

Picoides borealis (Red-cockaded Woodpecker) Extirpated from Missouri. Formerly a local, uncommon permanent resident in southeastern Ozarks. Last observed in Missouri, 1946.

Vermivora bachmanii (Bachman's Warbler) Extinct. Formerly a common summer resident along the St. Francois River drainage in Dunklin county; accidental in southeastern Ozarks. Last observed in Missouri, 1909. The last verified record of this species was in 1962, South Carolina.

TAXONOMIC CHANGES

MOLLUSKS

Leptodea leptodon (Scaleshell) will be tracked as *Potamilus leptodon*

Margaritifera monodonta (Spectaclecase) will be tracked as *Cumberlandia monodonta*

Villosa lienosus (Little Spectaclecase) will be tracked as *Leaunio lienosus*

INSECTS

Ceratopsyche piatrix (A Net-spinning Caddisfly) will be tracked as *Hydropsyche piatrix*.

Maccaffertium bednariki (A Heptageniid Mayfly) will be tracked as *Stenonema bednariki*.

TERRESTRIAL NATURAL COMMUNITIES

In addition to lichens, plants, and animals, the MONHP tracks occurrences of high-quality natural communities. Terrestrial natural communities are interrelated assemblages of plants, animals, and other living organisms incorporated into their physical surroundings- including geologic substrate, soils, topography and aspect - that are shaped by climate and other natural processes. High-quality sites are ones that provide diverse assemblages of native species and intact soils. These natural communities frequently provide the habitat necessary for Missouri's listed lichens, plants, and animals. Examples of high-quality aquatic natural communities are included in the MONHP, although SRANKs have not been assigned to individual aquatic natural community types. Because MDC tracks occurrences of high-quality natural communities, we encourage the submission of site information on natural communities in this Checklist.

State ranks are assigned to natural communities using criteria that are similar to species SRANKs. Criteria include total number of occurrences, number of occurrences by grade [A-D], total acres, number of counties in which the community type occurs, number of protected occurrences, and threats. Global ranks are not applied to communities due to the difficulty in reconciling Missouri's classification system with larger scale classifications. In 2021 terrestrial natural community SRANKS were revised using the criteria and ranking algorithms in NatureServe's conservation status assessment rank calculator along with peer-review.

Natural community types have been classified using The Terrestrial Natural Communities of Missouri (Nelson, 2010). This classification system was developed to accomplish an inventory of the state's natural communities, prioritized by quality, size and distribution, to help meet land protection goals. The terrestrial natural communities tracked in MONHP (high-quality examples) are listed below with their SRANKs by major community type.

NATURAL COMMUNITY TYPES

<u>FOREST</u>	<u>SRANK</u>
Dry-Mesic Loess/Glacial Till Forest	S4
Mesic Loess/Glacial Till Forest	S3
Dry-Mesic Limestone/Dolomite Forest	S4
Mesic Limestone/Dolomite Forest	S3
Dry-Mesic Chert Forest	S4
Dry-Mesic Sandstone Forest	S3
Mesic Sandstone Forest	S2
Dry-Mesic Sand Forest	S2
Mesic Sand Forest	S1
Dry-Mesic Igneous Forest	S4
Dry-Mesic Bottomland Forest	S4
Mesic Bottomland Forest	S2
Wet-Mesic Bottomland Forest	S2
Wet Bottomland Forest	S2
Riverfront Forest	S4
Total Forest Types: 15	

<u>WOODLAND</u>	<u>SRANK</u>
Dry Loess/Glacial Till Woodland	S3
Dry-Mesic Loess/Glacial Till Woodland	S3
Mesic Loess/Glacial Till Woodland	SH
Dry Limestone/Dolomite Woodland	S3
Dry-Mesic Limestone/Dolomite Woodland	S3
Dry Chert Woodland	S4
Dry-Mesic Chert Woodland	S4
Dry Sandstone Woodland	S3
Dry-Mesic Sandstone Woodland	S3
Dry Sand Woodland	S2
Dry-Mesic Sand Woodland	S2
Dry Igneous Woodland	S4
Dry-Mesic Igneous Woodland	S4
Upland Flatwoods	S2
Bottomland Flatwoods	S1
Sinkhole Flatwoods	S2
Dry-Mesic Bottomland Woodland	S3
Mesic Bottomland Woodland	SH
Wet-Mesic Bottomland Woodland	S1
Total Woodland Types: 19	

<u>SAVANNA</u>	<u>SRANK</u>
Dry-Mesic Loess/Glacial Till Savanna	S1
Mesic Loess/Glacial Till Savanna	SH
Limestone/Dolomite Savanna	SH
Chert Savanna	S1
Sandstone/Shale Savanna	SH
Sand Savanna	S1
Total Savanna Types: 6	

<u>PRAIRIE</u>	<u>SRANK</u>
Dry Loess/Glacial Till Prairie	S2
Dry-Mesic Loess/Glacial Till Prairie	S1
Mesic Loess/Glacial Till Prairie	S1
Dry Limestone/Dolomite Prairie	S2
Dry-Mesic Limestone/Dolomite Prairie	S1
Dry-Mesic Chert Prairie	S2
Dry-Mesic Sandstone/Shale Prairie	S2
Sand Prairie	S1
Prairie Swale	S1
Hardpan Prairie	S1S2
Wet-Mesic Bottomland Prairie	S1
Wet Bottomland Prairie	S1
Total Prairie Types: 12	

GLADE

	<u>SRANK</u>
Limestone Glade	S3
Dolomite Glade	S3S4
Chert Glade	S1
Sandstone Glade	S3
Igneous Glade	S3

Total Glade Types: 5**CLIFF/TALUS**

	<u>SRANK</u>
Dry Limestone/Dolomite Cliff	S4S5
Moist Limestone/Dolomite Cliff	S4
Dry Sandstone Cliff	S3S4
Moist Sandstone Cliff	S3
Dry Chert Cliff	S2
Moist Chert Cliff	S2
Dry Igneous Cliff	S3
Moist Igneous Cliff	S3
Unconsolidated Bluff	S4
Limestone/Dolomite Talus	S3
Igneous Talus	S3

Total Cliff/Talus Types: 11**STREAM EDGE**

	<u>SRANK</u>
Sand Bar	S3
Gravel Wash	S4
Stream Bank/River Bank	S3

Total Stream Edge Types: 3**WETLAND**

	<u>SRANK</u>
Marsh	S2
Shrub Swamp	S3S4
Swamp	S2
Pond Marsh	S1
Pond Shrub Swamp	S2S3
Pond Swamp	S1
Ozark Fen	S2
Prairie Fen	S1
Forested Fen	S2
Glacial Fen	S1
Acid Seep	S2
Saline Seep	S1
Limestone/Dolomite Spring	S3

Total Wetland Types: 13

<u>CAVE</u>	<u>SRANK</u>
Aquatic Cave	S4
Terrestrial Cave	S4
Total Cave Types:	2

Total Terrestrial Natural Communities:

86

THREATENED AND ENDANGERED SPECIES IN MISSOURI

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
PLANTS			
<i>Asclepias meadii</i>	Mead's Milkweed	Endangered	Threatened
<i>Boltonia decurrens</i>	Decurrent False Aster	Endangered	Threatened
<i>Geocarpon minimum</i>	Geocarpon	Endangered	Threatened
<i>Helenium virginicum</i>	Virginia Sneezeweed	Endangered	Threatened
<i>Isotria medeoloides</i>	Small Whorled Pogonia*	Endangered	Threatened
<i>Lindera melissifolia</i>	Pondberry	Endangered	Endangered
<i>Physaria filiformis</i>	Missouri Bladderpod	Endangered	Threatened
<i>Platanthera leucophaea</i>	Eastern Prairie Fringed Orchid*	Endangered	Threatened
<i>Platanthera praeclarula</i>	Western Prairie Fringed Orchid	Endangered	Threatened
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	Endangered	
MOLLUSKS			
<i>Alasmidonta viridis</i>	Slippershell Mussel	Endangered	
<i>Antrobia culveri</i>	Tumbling Creek Cavesnail	Endangered	Endangered
<i>Cumberlandia monodonta</i>	Spectaclecase	Endangered	Endangered
<i>Elliptio crassidens</i>	Elephantear	Endangered	
<i>Epioblasma curtisii</i>	Curtis Pearlymussel	Endangered	Endangered
<i>Epioblasma triquetra</i>	Snuffbox	Endangered	Endangered
<i>Lampsilis abrupta</i>	Pink Mucket	Endangered	Endangered
<i>Lampsilis higginsii</i>	Higgins Eye	Endangered	Endangered
<i>Lampsilis rafinesqueana</i>	Neosho Mucket	Endangered	Endangered
<i>Plethobasus cyphyus</i>	Sheepnose	Endangered	Endangered
<i>Potamilus capax</i>	Fat Pocketbook	Endangered	Endangered
<i>Potamilus leptodon</i>	Scaleshell	Endangered	Endangered
<i>Quadrula fragosa</i>	Winged Mapleleaf	Endangered	Endangered
<i>Reginaia ebenus</i>	Ebonyshell	Endangered	
<i>Simpsonaias ambigua</i>	Salamander Mussel	Endangered	
<i>Theliderma cylindrica</i>	Rabbitsfoot	Endangered	Threatened
CRUSTACEANS			
<i>Cambarus aculabrum</i>	Benton County Cave Crayfish		Endangered
<i>Faxonius eupunctus</i>	Coldwater Crayfish	Endangered	
<i>Faxonius peruncus</i>	Big Creek Crayfish		Proposed Threatened
<i>Faxonius quadruncus</i>	St. Francis River Crayfish		Proposed Threatened
<i>Faxonius roberti</i>	Spring River Crayfish	Endangered	
<i>Orconectes stygocaneyi</i>	Caney Mountain Cave Crayfish	Endangered	
INSECTS			
<i>Bombus affinis</i>	Rusty Patch Bumblebee		Endangered
<i>Nicrophorus americanus</i>	American Burying Beetle*	Endangered	Threatened
<i>Somatochlora hineana</i>	Hine's Emerald	Endangered	Endangered
FISH			
<i>Acipenser fulvescens</i>	Lake Sturgeon	Endangered	
<i>Cottus specus</i>	Grotto Sculpin		Endangered
<i>Crystallaria asprella</i>	Crystal Darter	Endangered	
<i>Etheostoma fusiforme</i>	Swamp Darter	Endangered	
<i>Etheostoma histrio</i>	Harlequin Darter	Endangered	
<i>Etheostoma nianguae</i>	Niangua Darter	Endangered	Threatened

FISH (Cont.)

<i>Etheostoma parvipinne</i>	Goldstripe Darter	Endangered
<i>Etheostoma whipplei</i>	Redfin Darter	Endangered
<i>Forbesichthys agassizii</i>	Spring Cavefish	Endangered
<i>Hybognathus hayi</i>	Cypress Minnow	Endangered
<i>Notropis maculatus</i>	Taillight Shiner	Endangered
<i>Notropis sabinae</i>	Sabine Shiner	Endangered
<i>Notropis topeka</i>	Topeka Shiner	Endangered
<i>Noturus eleutherus</i>	Mountain Madtom	Endangered
<i>Noturus placidus</i>	Neosho Madtom	Endangered
<i>Percina nasuta</i>	Longnose Darter	Threatened
<i>Platygobio gracilis</i>	Flathead Chub	Endangered
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	Endangered
<i>Scaphirhynchus platorynchus</i>	Shovelnose Sturgeon	Threatened/SA
<i>Troglichthys rosae</i>	Ozark Cavefish	Threatened
<i>Umbra limi</i>	Central Mudminnow	Endangered

AMPHIBIANS

<i>Cryptobranchus a. alleganiensis</i>	Eastern Hellbender	Endangered
<i>Cryptobranchus a. bishopi</i>	Ozark Hellbender	Endangered

REPTILES

<i>Deirochelys reticularia miliaria</i>	Western Chicken Turtle	Endangered
<i>Emydoidea blandingii</i>	Blanding's Turtle	Endangered
<i>Kinosternon flavescens</i>	Yellow Mud Turtle	Endangered
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	Proposed Threatened
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake*	Endangered
<i>Sistrurus catenatus</i>	Eastern Massasauga*	Threatened
<i>Sistrurus tergeminus tergeminus</i>	Prairie Massasauga	Endangered

BIRDS

<i>Botaurus lentiginosus</i>	American Bittern	Endangered
<i>Circus hudsonius</i>	Northern Harrier	Endangered
<i>Egretta thula</i>	Snowy Egret	Endangered
<i>Laterallus jamaicensis jamaicensis</i>	Eastern Black Rail	Threatened
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	Endangered
<i>Peucaea aestivalis</i>	Bachman's Sparrow	Endangered
<i>Rallus elegans</i>	King Rail	Endangered
<i>Sterna antillarum athalassos</i>	Interior Least Tern	Endangered
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	Endangered

MAMMALS

<i>Canis lupus</i>	Gray Wolf*	Endangered
<i>Canis rufus</i>	Red Wolf*	Endangered
<i>Corynorhinus townsendii ingens</i>	Ozark Big-eared Bat*	Endangered
<i>Lepus californicus</i>	Black-tailed Jackrabbit	Endangered
<i>Myotis grisescens</i>	Gray Myotis	Endangered
<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	Threatened
<i>Myotis sodalis</i>	Indiana Myotis	Endangered
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	Endangered

*Considered extirpated, historical or accidental occurrence in Missouri.

SPECIES AND STATUSES				STATE STATUS	FEDERAL STATUS
<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>		
LICHENS					
<i>Cladonia cervicornis</i> ssp. <i>verticillata</i>	A Lichen	S?	G5		
<i>Cladonia leporina</i>	A Lichen	S2	G4G5		
<i>Coenogonium missouriense</i>	Missouri Cave Lichen	SH	GH		
<i>Collema nigrescens</i>	A Lichen	SU	G5?		
<i>Dendriscocaulon intricatum</i>	A Lichen	S?	GUQ		
<i>Dermatocarpon moulinsii</i>	A Lichen	S1	GNR		
<i>Dibaeis absoluta</i>	A Lichen	S1	G4		
<i>Flavoparmelia rutidota</i>	A Lichen	S?	G4G5		
<i>Graphina sophisticascens</i>	A Lichen	SH	GNR		
<i>Imshaugia aleurites</i>	A Lichen	S?	G5		
<i>Lecidea lurida</i>	A Lichen	SU	GNR		
<i>Pannaria rubiginosa</i>	A Lichen	S1	G4G5		
<i>Parmelia squarrosa</i>	A Lichen	S?	G5		
<i>Parmelina horrescens</i>	A Lichen	S1	G5		
<i>Parmotrema hypoleucinum</i>	A Lichen	S1	G4G5		
<i>Parmotrema tinctorum</i>	A Lichen	S2	G5?		
<i>Parmotrema xanthinum</i>	A Lichen	S?	G3G5		
<i>Pseudocyphellaria aurata</i>	A Lichen	S1	G3G5		
<i>Psora icterica</i>	A Lichen	S1	G5?		
<i>Pycnothelia papillaria</i>	A Lichen	S1	G5		
<i>Ramalina intermedia</i>	A Lichen	S1	G5		
<i>Rimelia subisidiosa</i>	A Lichen	S1	G4G5		
<i>Tuckermannopsis ciliaris</i>	A Lichen	S?	G5		
<i>Usnea angulata</i>	A Lichen	S1	G3G5		
<i>Xanthoparmelia australasica</i>	A Lichen	S1	G5		
Total Lichen Records: 25					
LIVERWORTS AND HORNWORTS					
<i>Aneura sharpii</i>	A Liverwort	S1	GNR		
<i>Anthoceros agrestis</i>	A Hornwort	S2	G4G5		
<i>Bazzania trilobata</i> var. <i>depauperata</i>	A Liverwort	S1	G5TUQ		
<i>Bazzania trilobata</i> var. <i>trilobata</i>	A Liverwort	S1	G5T5		
<i>Calypogeia muelleriana</i> ssp. <i>muelleriana</i>	A Liverwort	SU	G5T5		
<i>Calypogeia sullivantii</i>	A Leafy Liverwort	S1	G4		
<i>Frullania kunzei</i>	A Liverwort	S1	G4		
<i>Fuscocephaloziopsis catenulata</i>	A Liverwort	S2	G5		
<i>Fuscocephaloziopsis connivens</i>	A Liverwort	S1	G5		
<i>Jungermannia leiantha</i>	A Liverwort	S1	G5		
<i>Kurzia pauciflora</i>	A Liverwort	S1	G5		
<i>Kurzia sylvatica</i>	A Liverwort	S1	G5		
<i>Leucolejeunea unciloba</i>	A Liverwort	S1	G4G5		
<i>Marchantia polymorpha</i> ssp. <i>polymorpha</i>	A Liverwort	S1	G5TNR		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>S RANK</u>	<u>G RANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
LIVERWORTS AND HORNWORTS (Cont.)					
<i>Marsupella sullivantii</i>	A Liverwort	S2	G5		
<i>Metzgeria conjugata</i>	A Liverwort	S1	G5		
<i>Metzgeria furcata</i>	A Liverwort	S2	G5		
<i>Nardia lescurii</i>	A Liverwort	S1	G3?		
<i>Notothylas orbicularis</i>	A Hornwort	S1	G5		
<i>Nowellia curvifolia</i>	A Liverwort	S2	G5		
<i>Odontoschisma denudatum</i>	A Liverwort	S1	G5		
<i>Oxymitra incrassata</i>	A Liverwort	S1	GNR		
<i>Phaeoceros oreganus</i>	A Hornwort	S1	GNRQ		
<i>Plagiochasma wrightii</i>	A Liverwort	SH	G3?		
<i>Ptilidium pulcherrimum</i>	A Liverwort	S1	G5		
<i>Radula australis</i>	A Liverwort	SR	G3G4		
<i>Rectolejeunea maxonii</i>	A Liverwort	S1	G4		
<i>Riccardia multifida</i>	A Liverwort	S1	G5		
<i>Riccardia palmata</i>	A Liverwort	S1	G5		
<i>Riccia austini</i>	A Liverwort	S2	G5		
<i>Riccia bifurca</i>	A Liverwort	SU	G5		
<i>Riccia cavernosa</i>	A Liverwort	S1	G5		
<i>Riccia crystallina</i>	A Liverwort	SU	G4G5		
<i>Riccia frostii</i>	A Liverwort	S1	G5		
<i>Riccia hirta</i>	A Liverwort	S2	G5		
<i>Riccia macallisteri</i>	A Liverwort	S1	G2G4		
<i>Riccia nigrella</i>	A Liverwort	SU	G4G5		
<i>Riccia ozarkiana</i>	A Liverwort	SH	G1G2		
<i>Riccia sorocarpa</i>	A Liverwort	S1	G5		
<i>Riccia sullivantii</i>	A Liverwort	S?	G4G5T4T5Q		
<i>Schistochilopsis incisa</i>	A Liverwort	S1	G5		

Total Liverwort and Hornwort Records: 41

MOSSES

<i>Acaulon muticum</i> var. <i>muticum</i>	A Moss	S1	G4G5TNR
<i>Anacamptodon splachnoides</i>	Knothole Moss	S1	G3G5
<i>Anomobryum julaceum</i>	A Moss	S1	G5
<i>Archidium alternifolium</i>	A Moss	S1	G4G5
<i>Atrichum crispulum</i>	A Moss	S2	G5
<i>Atrichum crispum</i>	A Moss	S1	G5
<i>Atrichum cylindricum</i>	A Moss	S1	G5
<i>Brachelyma subulatum</i>	A Moss	S1	G4G5
<i>Brachythecium campestre</i>	A Moss	S1	G5
<i>Brachythecium salebrosum</i> var. <i>salebrosum</i>	A Moss	SU	G5TNR
<i>Bruchia texana</i>	A Moss	SU	G3G5
<i>Bryhnia novae-angliae</i>	A Moss	S1	G5
<i>Bryoxiphium norvegicum</i>	Sword Moss	S1	G5?
<i>Calliergonella cuspidata</i>	A Moss	S1	G5
<i>Campylium protensum</i>	A Moss	S2	G3G5
<i>Campyloodiella stenocarpa</i>	A Moss	S1	G5

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>S RANK</u>	<u>G RANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOSSES (Cont.)					
<i>Campylopus tallulensis</i>	A Moss	S2	G4		
<i>Codiophorus aciculare</i>	A Moss	S1	G5		
<i>Dichelyma capillaceum</i>	A Moss	S1	G5		
<i>Dicranella rufescens</i>	A Moss	S1	G5?		
<i>Dicranum polysetum</i>	A Moss	S1	G5		
<i>Didymodon revolutus</i>	A Moss	S1	G4		
<i>Didymodon rigidulus</i> var. <i>rigidulus</i>	A Moss	S1	G5T4?		
<i>Ditrichum rhynchosistemum</i>	A Moss	S1	G3G5		
<i>Drepanocladus aduncus</i>	A Moss	SU	G5		
<i>Drepanocladus polygamus</i>	A Moss	S1	G5		
<i>Encalypta procera</i>	Extinguisher Moss	S1	G5		
<i>Entodon brevisetus</i>	A Moss	S1	G4?		
<i>Ephemerum crassinervium</i> var. <i>texanum</i>	A Moss	SU	G4T3?		
<i>Ephemerum serratum</i>	A Moss	S1	G4		
<i>Fissidens exilis</i>	Small Pocket Moss	S2	G3G4		
<i>Fissidens hallianus</i>	A Moss	S2	GNRQ		
<i>Forsstroemia producta</i>	A Moss	S1	G5?		
<i>Funaria americana</i>	A Moss	SU	G3?		
<i>Gemmabryum klinggraeffii</i>	A Moss	S1	G4G5		
<i>Gemmabryum ruderale</i>	A Moss	S2	G3G5		
<i>Gemmabryum subapiculatum</i>	A Moss	SX	G5?		
<i>Grimmia olneyi</i>	A Moss	S2	G3G5		
<i>Grimmia plagiopodia</i>	A Moss	S1	G4G5		
<i>Gymnostomum calcareum</i>	A Moss	SU	G5?		
<i>Herzogiella striatella</i>	A Moss	SU	G5		
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus	S1	G3?		
<i>Hypnum cupressiforme</i> var. <i>filiforme</i>	A Moss	S1	G5TNR		
<i>Hypnum lindbergii</i>	Lindberg's Hypnum Moss	SU	G5		
<i>Hypnum pallescens</i>	A Moss	S1	G5		
<i>Hypnum pratense</i>	A Moss	S1	G5		
<i>Imbribryum miniatum</i>	A Moss	S1	G4G5		
<i>Isopterygiopsis muelleriana</i>	A Moss	S1	G5		
<i>Jaffueliobryum raui</i>	A Moss	S2	G4?		
<i>Jaffueliobryum wrightii</i>	A Moss	S1	G4G5		
<i>Leskeia polycarpa</i>	A Moss	SU	G5		
<i>Micromitrium megalosporum</i>	A Moss	S1S2	G4		
<i>Micromitrium synoicum</i>	A Moss	SU	G4		
<i>Micromitrium tenerum</i>	A Moss	S1	G4G5		
<i>Mnium hornum</i>	A Moss	S1	G5		
<i>Mnium thomsonii</i>	A Moss	S?	G5		
<i>Myurella sibirica</i>	A Moss	S2	G5		
<i>Neckera tessellata</i>	A Moss	S1	G4G5		
<i>Orthotrichum anomalum</i>	A Moss	S?	G5		
<i>Orthotrichum diaphanum</i>	A Moss	S2	G5		
<i>Orthotrichum elegans</i>	A Moss	S1	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>S RANK</u>	<u>G RANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOSSES (Cont.)					
<i>Orthotrichum lescurii</i>	A Moss	S1	GNR		
<i>Physcomitrium collenchymatum</i>	A Moss	S1	G2G4		
<i>Physcomitrium hookeri</i>	A Moss	SU	G2G4		
<i>Plagiomnium medium</i>	A Moss	SU	G5		
<i>Plagiothecium denticulatum</i>	A Moss	S1	G5		
<i>Platylomella lescurii</i>	A Moss	S2	G5		
<i>Pleuridium acuminatum</i>	A Moss	S2	GNR		
<i>Pleuridium sullivantii</i>	A Moss	S1	G3G5		
<i>Pohlia annotina</i>	A Moss	S2	G4G5		
<i>Polytrichastrum formosum</i> var. <i>densifolium</i>	A Moss	S1	G5TNR		
<i>Pseudocampylium radicale</i>	A Moss	S1	G3G5		
<i>Pseudotaxiphyllum distichaceum</i>	A Moss	S1	G4G5		
<i>Ptychomitrium serratum</i>	A Moss	S1	G4?		
<i>Ptychomitrium sinense</i>	A Moss	S1	G3?Q		
<i>Ptychostomum cernuum</i>	A Moss	S1	G3G5		
<i>Ptychostomum cyclophyllum</i>	A Moss	S?	G4G5		
<i>Ptychostomum pallescens</i>	A Moss	SU	G5		
<i>Ptychostomum pendulum</i>	A Moss	S1	G5		
<i>Pylaisia intricata</i>	A Moss	SU	G5		
<i>Pylaisiadelpha tenuirostris</i>	A Moss	S2	G5?		
<i>Pyramidula tetragona</i>	A Moss	S1	G3G5		
<i>Rhabdoweisia crispata</i>	A Moss	S1	G5		
<i>Rhytidium rugosum</i>	Golden Glade-moss	S1	G5		
<i>Rosulabryum flaccidum</i>	A Moss	S2	GNR		
<i>Schistidium liliputianum</i>	A Moss	S1	GNR		
<i>Seligeria calcarea</i>	A Moss	S?	G4?		
<i>Seligeria donniana</i>	A Moss	S1	G4G5		
<i>Seligeria pusilla</i>	A Moss	S1	G3G5		
<i>Sematophyllum marylandicum</i>	A Moss	S1	G5		
<i>Sphagnum affine</i>	Sphagnum	S1	G5		
<i>Sphagnum angustifolium</i>	Narrowleaf Peatmoss	S1	G5		
<i>Sphagnum bartlettianum</i>	Sphagnum	S1	G4G5		
<i>Sphagnum capillifolium</i>	Northern Peatmoss	S2	G5		
<i>Sphagnum cuspidatum</i>	Sphagnum	S1	G5		
<i>Sphagnum fallax</i>	Sphagnum	S1	G5		
<i>Sphagnum fimbriatum</i> var. <i>fimbriatum</i>	Sphagnum	S1	G5T5		
<i>Sphagnum henryense</i>	Sphagnum	S1	G4?		
<i>Sphagnum inundatum</i>	Sphagnum	S1	G4		
<i>Sphagnum magellanicum</i>	Magellan's Peatmoss	S1	G5		
<i>Sphagnum platyphyllum</i>	Sphagnum	SU	G5		
<i>Sphagnum recurvum</i>	Sphagnum	S1	G5		
<i>Sphagnum russowii</i>	Sphagnum	S1	G5		
<i>Sphagnum subtile</i>	Sphagnum	S2	G5		
<i>Sphagnum trinitense</i>	Sphagnum	S1	G4		
<i>Syntrichia papillosa</i>	A Moss	S2	G5		
<i>Syrrhopodon texanus</i>	A Moss	S2	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOSSES (Cont.)					
<i>Thamnobryum alleghaniense</i>	A Moss	S1	G5?		
<i>Tortella fragilis</i>	Fragmented Screw-moss	SU	G5		
<i>Tortella tortuosa</i>	Twisted Moss	SU	G5		
<i>Trematodon longicollis</i>	A Moss	S2	G5		
<i>Trichostomum tenuirostre</i> var. <i>gemmae</i>	A Moss	S1	G5TU		
<i>Ulota hutchinsiae</i>	Hutchins' Ulota Moss	S1	G5		
<i>Weissia phascopsis</i>	A Pygmy Moss	S1	G3G4		
<i>Zygodon apiculatus</i>	A Moss	S1	G5TU		
Total Moss Records: 115					
FERNS AND FERN ALLIES					
<i>Asplenium bradleyi</i>	Bradley's Spleenwort	SU	G4		
<i>Asplenium montanum</i>	Mountain Spleenwort	SH	G5		
<i>Asplenium pinnatifidum</i>	Lobed Spleenwort	SU	G4		
<i>Asplenium trichomanes</i> ssp. <i>trichomanes</i>	Maidenhair Spleenwort	SU	G5T5		
<i>Azolla caroliniana</i>	Eastern Mosquito Fern	S1S3	G5		
<i>Botrychium biternatum</i>	Few-lobed Grape Fern	S1	G5		
<i>Cheilanthes alabamensis</i>	Alabama Lip-fern	S1	G4G5		
<i>Cheilanthes tomentosa</i>	Woolly Lip-fern	S1	G5		
<i>Cystopteris tenuis</i>	A Bladderfern	S1	G5		
<i>Dennstaedtia punctilobula</i>	Hay-scented Fern	S2	G5		
<i>Dryopteris carthusiana</i>	Spinulose Shield Fern	S2	G5		
<i>Dryopteris celsa</i>	Log Fern	S1	G4		
<i>Dryopteris cristata</i>	Crested Fern	S1	G5		
<i>Dryopteris goldiana</i>	Goldie's Fern	S2	G4G5		
<i>Dryopteris intermedia</i>	Evergreen Woodfern	S1	G5		
<i>Huperzia porophila</i>	Fir Clubmoss	S2	G4		
<i>Isoetes engelmannii</i> var. <i>engelmannii</i>	Engelmann's Quillwort	S1?	G4TNRQ		
<i>Lycopodium dendroideum</i>	Round-branched Ground Pine	S1	G5		
<i>Lycopodium tristachyum</i>	Ground Cedar	S1	G5		
<i>Matteuccia struthiopteris</i> var. <i>pensylvanica</i>	Ostrich Fern	S2	G5T5		
<i>Ophioglossum crotalophoroides</i>	Bulbous Adder's-tongue	SH	G5		
<i>Ophioglossum petiolatum</i>	Stalked Adder's-tongue	SX	G5		
<i>Pellaea glabella</i> var. <i>missouriensis</i>	Missouri Cliffbrake	S1S2	G5T1T2		
<i>Pilularia americana</i>	American Pillwort	SU	G5		
<i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>	Bracken	SU	G5T5		
<i>Thelypteris noveboracensis</i>	New York Fern	S1	G5		
<i>Woodsia obtusa</i> ssp. <i>occidentalis</i>	Blunt-lobe Woodsia	S1	G5T3T4		
<i>Woodwardia areolata</i>	Netted Chain Fern	S2	G5		
Total Ferns and Fern Allies Records: 28					

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS					
<i>Acalypha deamii</i>	Large Seeded Mercury	S2	G4?		
<i>Aconitum uncinatum</i>	Southern Monkshood	S1	G4		
<i>Agalinis auriculata</i>	Auriculate False Foxglove	S3	G3		
<i>Agalinis heterophylla</i>	Prairie False Foxglove	S1	G4G5		
<i>Agalinis purpurea</i>	Purple False Foxglove	S2	G5		
<i>Agalinis viridis</i>	Green False Foxglove	S1	G4?		
<i>Agastache scrophulariifolia</i>	Purple Giant-hyssop	S1	G4		
<i>Agrimonia gryposepala</i>	Tall Agrimony	SU	G5		
<i>Allium burdickii</i>	Wild Leek	S2	G4G5		
<i>Alopecurus aequalis</i>	Floating Foxtail Grass	S2	G5		
<i>Amorpha nitens</i>	Shining False Indigo	S1	G3?		
<i>Amsonia ciliata</i> var. <i>filifolia</i>	Ciliate Blue Star	S2S3	G5?T4?		
<i>Andropogon hirsutior</i>	Bushy Bluestem	SU	G5T5		
<i>Anemone cylindrica</i>	Thimbleweed	S2	G5		
<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	Wood Anemone	S1	G5T5		
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S2	G5		
<i>Aristida adscensionis</i>	Sixweeks Three-awn	SH	G5		
<i>Aristida desmantha</i>	Curly Three-awn	S2	G5		
<i>Aristida lanosa</i>	Woollyleaf Three-awn	S1	G5		
<i>Aristida ramosissima</i>	Slender Three-awn	SH	G5		
<i>Aronia melanocarpa</i>	Black Chokeberry	S1	G5		
<i>Artemesia dracunculus</i>	A Wormwood	SH	G5		
<i>Asclepias exaltata</i>	Poke Milkweed	S1	G5		
<i>Asclepias meadii</i>	Mead's Milkweed	S2	G2	E	T
<i>Asclepias speciosa</i>	Showy Milkweed	SA	G5		
<i>Astragalus lotiflorus</i>	Low Milk Vetch	S2	G5		
<i>Astranthium ciliatum</i>	Western Daisy	S2	G5T5		
<i>Baptisia sphaerocarpa</i>	Round-fruited Yellow Wild Indigo	SU	G4G5		
<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Screwstem	S1	G5T5		
<i>Bartonia virginica</i>	Yellow Bartonia	S1	G5		
<i>Berberis canadensis</i>	American Barberry	S1	G3G4		
<i>Bergia texana</i>	Bergia	S2	G5		
<i>Berula erecta</i> var. <i>incisa</i>	Cut-leaved Water-parsnip	S1	G4G5T4T5		
<i>Bidens beckii</i>	Water Marigold	SU	G5		
<i>Bidens laevis</i>	A Beggar's Tick	S1	G5		
<i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i>	Bayonet Grass	S1	G5T5		
<i>Boltonia decurrens</i>	Decurrent False Aster	S1	G2G3	E	T
<i>Bouteloua gracilis</i>	Blue Grama	S1	G5		
<i>Bouteloua hirsuta</i> var. <i>hirsuta</i>	Hairy Grama	S2	G5T5		
<i>Bromus latiglumis</i>	A Brome	S3	G5		
<i>Buchloe dactyloides</i>	Buffalo Grass	SH	G4G5		
<i>Calamagrostis porteri</i> ssp. <i>insperata</i>	Oferhollow Reed Grass	S3	G4T3		
<i>Calamagrostis stricta</i> ssp. <i>inxpansa</i>	Northern Reedgrass	S2S3	G5T5		

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FLOWERING PLANTS (Cont.)					
<i>Calamovilfa longifolia</i> var. <i>longifolia</i>	Long-leaved Reed Grass	SH	G5T5		
<i>Callicarpa americana</i>	French Mulberry	S1	G5		
<i>Callirhoe bushii</i>	Bush's Poppy Mallow	S1	G3		
<i>Callirhoe triangulata</i>	Clustered Poppy Mallow	SH	G3		
<i>Callitricha palustris</i>	Vernal Water Starwort	SU	G5		
<i>Calopogon oklahomensis</i>	Grass Pink Orchid	S2	G2		
<i>Calopogon tuberosus</i>	Grass Pink Orchid	S2	G5		
<i>Caltha palustris</i>	Marsh Marigold	S1	G5		
<i>Campanula aparinoides</i> var. <i>aparinoides</i>	Marsh Bellflower	S1	G5TNR		
<i>Campanula rotundifolia</i>	Harebell	S1	G5		
<i>Carex abscondita</i>	A Sedge	S1	G4G5		
<i>Carex alata</i>	Broadwing Sedge	S2S3	G5		
<i>Carex albicans</i> var. <i>australis</i>	Bellow Beaked Sedge	S1	G5T5		
<i>Carex albolutescens</i>	Greenish-white Sedge	S1S2	G5		
<i>Carex aquatilis</i> var. <i>substricta</i>	A Sedge	SH	G5TNR		
<i>Carex atherodes</i>	Awned Sedge	SH	G5		
<i>Carex atlantica</i> ssp. <i>atlantica</i>	A Sedge	S1	G5T5		
<i>Carex atlantica</i> ssp. <i>capillacea</i>	Prickly Bog Sedge	S1	G5T5?		
<i>Carex bromoides</i> ssp. <i>bromoides</i>	A Sedge	S2	G5T5		
<i>Carex buxbaumii</i>	Brown Bog Sedge	S2	G5		
<i>Carex communis</i> var. <i>communis</i>	Fibrous-root Sedge	S2	G5T5		
<i>Carex comosa</i>	Bristly Sedge	S2	G5		
<i>Carex conoidea</i>	Field Sedge	S1	G5		
<i>Carex cumberlandensis</i>	A Sedge	S1	GNR		
<i>Carex debilis</i> var. <i>debilis</i>	White-edge Sedge	S1	G5T5		
<i>Carex decomposita</i>	Epiphytic Sedge	S3	G3G4		
<i>Carex echinodes</i>	A Sedge	SH	G5TNR		
<i>Carex fissa</i> var. <i>fissa</i>	A Sedge	S1	G4?T3T4		
<i>Carex flaccosperma</i>	A Sedge	S2	G5		
<i>Carex gigantea</i>	Giant Sedge	S1S2	G4		
<i>Carex gracillima</i>	Graceful Sedge	S1	G5		
<i>Carex inops</i> ssp. <i>heliophila</i>	Sun Sedge	SU	G5T5		
<i>Carex jorrii</i>	Cypress-swamp Sedge	SH	G4G5		
<i>Carex lacustris</i>	Lake-bank Sedge	S2	G5		
<i>Carex laxiculmis</i> var. <i>copulata</i>	A Sedge	SU	G5T4		
<i>Carex laxiculmis</i> var. <i>laxiculmis</i>	A Sedge	SU	G5T5		
<i>Carex laxiflora</i> var. <i>laxiflora</i>	A Carex	S1	G5T5		
<i>Carex longii</i>	Greenish-white Sedge	SH	G5		
<i>Carex microdonta</i>	A Sedge	S1	G4		
<i>Carex missouriensis</i>	Missouri Sedge	SU	G4		
<i>Carex molestiformis</i>	A Sedge	S2	G4		
<i>Carex oxylepis</i>	Sharp-scale Sedge	S2	G5?		
<i>Carex prasina</i>	Drooping Sedge	S1	G4		
<i>Carex reniformis</i>	Reniform Sedge	S1	G4?		
<i>Carex reznicekii</i>	A Sedge	S2?	G5		
<i>Carex sartwellii</i>	Sartwell's Sedge	S1	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Carex scabrata</i>	Rough Sedge	SH	G5		
<i>Carex socialis</i>	A Sedge	S2	G4		
<i>Carex sprengelii</i>	Longbeak Sedge	S2	G5		
<i>Carex sterilis</i>	A Sedge	S2	G4G5		
<i>Carex straminea</i>	Straw Sedge	S1	G5		
<i>Carex sychnocephala</i>	A Sedge	S1	G5		
<i>Carex tetanica</i>	Rigid Sedge	S3	G4G5		
<i>Carex tonsa</i> var. <i>rugosperma</i>	Shaved Sedge	S1	G5T5		
<i>Carex tonsa</i> var. <i>tonsa</i>	Shaved Sedge	SH	G5T5		
<i>Carex triangularis</i>	Triangular Sedge	S2	G5		
<i>Carex trichocarpa</i>	Hairy-fruited Sedge	S1	G4		
<i>Carex vesicaria</i> var. <i>monile</i>	A Sedge	S2?	G5T4		
<i>Carex willdenowii</i>	Willdenow's Sedge	S1	G5		
<i>Carex woodii</i>	A Sedge	S1	G4		
<i>Carya pallida</i>	Sand Hickory	S2S3	G5		
<i>Castanea pumila</i> var. <i>ozarkensis</i>	Ozark Chinquapin	S2	G5T3		
<i>Castanea pumila</i> var. <i>pumila</i>	Chinquapin	SH	G5T5?		
<i>Castilleja purpurea</i> var. <i>purpurea</i>	Purple Paintbrush	SH	G5T4?		
<i>Castilleja sessiliflora</i>	Downy Painted Cup	S2	G5		
<i>Cayaponia quinqueloba</i>	A Gourd	S1	G4		
<i>Centaurea americana</i>	American basket flower	SH	G5		
<i>Centrosema virginianum</i>	Coastal Butterfly-pea	SH	G5		
<i>Ceratophyllum echinatum</i>	Coontail	S1?	G4		
<i>Chaetopappa asteroides</i> var. <i>asteroides</i>	Common Leastdaisy	S2S3	G5T3T5		
<i>Chasmanthium laxum</i> ssp. <i>laxum</i>	Slender Spike Grass	S1	G5		
<i>Chasmanthium sessiliflorum</i>	A Spike Grass	S1	G5		
<i>Chelone obliqua</i>	Rose Turtlehead	S2	G4		
<i>Chenopodium berlandieri</i> var. <i>boscianum</i>	Pitseed Goosefoot	SU	G5T3T5		
<i>Chenopodium strictum</i> var. <i>glaucophyllum</i>	A Goosefoot	SH	G5TU		
<i>Chimaphila maculata</i>	Spotted Wintergreen	S1	G5		
<i>Cicuta maculata</i> var. <i>bolanderi</i>	Common Water Hemlock	SU	G5T3T4		
<i>Cirsium hillii</i>	Hill's Thistle	SU	G3		
<i>Cirsium undulatum</i>	Wavy-leaved Thistle	S1	G5		
<i>Cissus trifoliata</i>	Marine Vine	S2	G5		
<i>Cladium jamaicense</i>	Jamaica Swamp Sawgrass	S1	G5T5		
<i>Clematis fremontii</i>	Fremont's Leather Flower	S3	G5		
<i>Clematis viorna</i>	A Leatherflower	S1	G5		
<i>Cleome serrulata</i>	Rocky Mountain Bee Plant	SH	G5		
<i>Coeloglossum viride</i> var. <i>virescens</i>	Long-bracted Orchid	S1	G5T5		
<i>Coelorachis cylindrica</i>	Joint Grass	S1	G4G5		
<i>Coleataenia longifolia</i> ssp. <i>longifolia</i>	Panicgrass	SU	G5T5?		
<i>Conyza canadensis</i> var. <i>pusilla</i>	Fleabane	S1S2	G5T5		
<i>Corispermum americanum</i>	American Bugseed	SU	G5?		

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FLOWERING PLANTS (Cont.)					
<i>Corispermum pallasii</i>	A Bugseed	SH	G4?		
<i>Corispermum villosum</i>	Oriental Tick-seed	SU	G4?		
<i>Corydalis aurea</i> ssp. <i>aurea</i>	Golden Corydalis	SU	G5T5		
<i>Corydalis micrantha</i> ssp. <i>australis</i>	A Corydalis	S2	G5T5?		
<i>Crataegus berberifolia</i> var. <i>berberifolia</i>	Barberry-leaved Hawthorn	SU	G4G5Q		
<i>Crataegus collina</i> var. <i>lettermanii</i>	Hillside Hawthorn	SU	GNRTNR		
<i>Crataegus collina</i> var. <i>sordida</i>	Hillside Hawthorn	SU	GNRTNR		
<i>Crataegus fecunda</i>	St. Clair Hawthorn	SU	GXC		
<i>Crataegus lanuginosa</i>	Woolly Hawthorn	SU	GH		
<i>Crataegus macrosperma</i>	Eastern Hawthorn	SU	G5		
<i>Crataegus margarettae</i> var. <i>brownii</i>	Margaret's Hawthorn	SU	G5?TNR		
<i>Crataegus marshallii</i>	Parsley Haw	S1	G5		
<i>Crataegus pruinosa</i> var. <i>magnifolia</i>	Frosty Hawthorn	SU	G5TNR		
<i>Crataegus schuettei</i>	Royal Hawthorn	SU	G5?		
<i>Crataegus spathulata</i>	A Hawthorn	S1	G5		
<i>Crataegus spes-aestatum</i>	Summers Hawthorn	SU	GNR		
<i>Crataegus succulenta</i> var. <i>succulenta</i>	Succulent Hawthorn	SU	G5T5		
<i>Crataegus texana</i> var. <i>dasyphylla</i>	Texas Red Hawthorn	SU	GNRTNR		
<i>Crataegus transmississippiensis</i>	A Hawthorn	SU	GNR		
<i>Crataegus viridis</i> var. <i>nitens</i>	Green Hawthorn	SU	G5TNR		
<i>Croton michauxii</i>	Narrowleaf Rushfoil	S1	G5		
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	Peruvian Dodder	SU	G5T4T5		
<i>Cyclachaena xanthiifolia</i>	A Marsh Elder	S1	G5		
<i>Cynosciadium digitatum</i>	Finger Dog-shade	S2	G4G5		
<i>Cyperus compressus</i>	Coco Grass	S1	G5		
<i>Cyperus croceus</i>	Baldwin's Cyperus	S1	G5		
<i>Cyperus diandrus</i>	Umbrella Flatsedge	S1	G5		
<i>Cyperus flavicomus</i>	An Umbrella Sedge	S1	G5		
<i>Cyperus hystricinus</i>	Flatsedge	S2	G4		
<i>Cyperus plukenetii</i>	Plukenet's Cyperus	S2	G5		
<i>Cyperus retroflexus</i>	Umbrella Sedge	S1	G5		
<i>Cyperus retrofractus</i>	Teasel-like Cyperus	S1S2	G5		
<i>Cyperus retrorsus</i>	An umbrella sedge	SH	G5		
<i>Cyperus schweinitzii</i>	Schweinitz's Flatsedge	S3	G5		
<i>Cyperus setigerus</i>	Bristled Cyperus	S1	G3G5		
<i>Cypripedium candidum</i>	Small White Lady-slipper	S1	G4		
<i>Cypripedium reginae</i>	Showy Lady-slipper	S2S3	G4G5		
<i>Dalea enneandra</i>	Nine-anther Dalea	S2	G5		
<i>Dalea gattingeri</i>	Gattinger Prairie-clover	S1	G3G4		
<i>Dalea multiflora</i>	Round-headed Prairie Clover	SH	G5		
<i>Dalea villosa</i> var. <i>villosa</i>	Silky Prairie Clover	SU	G5T5		

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FLOWERING PLANTS (Cont.)					
<i>Decodon verticillatus</i>	Swamp Loosestrife	S1	G5		
<i>Delphinium exaltatum</i>	Tall Larkspur	S2	G3		
<i>Descurainia pinnata</i> ssp. <i>pinnata</i>	Tansy Mustard	S2S3	G5T5		
<i>Desmodium ochroleucum</i>	Creamflower Tick Trefoil	SH	G2G3		
<i>Desmodium strictum</i>	Pineland Tick Trefoil	S2	G4		
<i>Desmodium viridiflorum</i>	Velvety Tick Trefoil	S1	G5?		
<i>Diarrhena americana</i>	American Beakgrain	S1	G4G5		
<i>Dichanthelium dichotomum</i> ssp. <i>mattamuskeetense</i>	A Panic Grass	SH	G4?		
<i>Dichanthelium dichotomum</i> var. <i>nitidum</i>	A Panic Grass	S1	G5TNR		
<i>Dichanthelium leibergii</i>	A Panic Grass	SU	G4		
<i>Dichanthelium yadkinense</i>	A Panic Grass	S1	G5T4Q		
<i>Dichondra carolinensis</i>	Pony-foot Grass	S1	G5		
<i>Dirca decipiens</i>	Leatherwood	SU	G1G2		
<i>Distichlis spicata</i> var. <i>spicata</i>	Seashore Salt Grass	S1	G5TNR		
<i>Doellingeria umbellata</i> var. <i>pubens</i>	Flat-topped White Aster	S1	G5T5		
<i>Echinacea angustifolia</i>	Narrow-leaved Coneflower	S1	G4		
<i>Echinochloa walteri</i>	A Barnyard Grass	S1	G5		
<i>Elatine triandra</i> var. <i>americana</i>	Waterwort	SH	G4		
<i>Eleocharis atropurpurea</i>	A Spike Rush	S1	G4G5		
<i>Eleocharis bifida</i>	Glades Spikerush	S1	G3G4		
<i>Eleocharis coloradoensis</i>	Dwarf Spikerush	S1	G4		
<i>Eleocharis elliptica</i> var. <i>elliptica</i>	Elliptic Spikesedge	S1	G5T4?Q		
<i>Eleocharis equisetoides</i>	Horsetail Spike Rush	SH	G4		
<i>Eleocharis lanceolata</i>	Lance-like Spike Rush	S2	G4G5		
<i>Eleocharis parvula</i>	Small Spike Rush	SU	G5		
<i>Elodea canadensis</i>	Broad Waterweed	SU	G5		
<i>Elymus churchii</i>	Church's Wildrye	S1	G3		
<i>Elymus glaucus</i> ssp. <i>glaucus</i>	Blue Wild Rye	SU	G5T5		
<i>Epifagus virginiana</i>	Beech Drops	S2	G5		
<i>Epilobium leptophyllum</i>	Willow Herb	S1	G5		
<i>Eragrostis curtipedicellata</i>	Gummy Lovegrass	S1	G5		
<i>Eragrostis glomerata</i>	A Love Grass	S1	G3G5		
<i>Eragrostis reptans</i>	Creeping Love Grass	SH	G5		
<i>Erianthus giganteus</i>	Plume Grass	S1	G5		
<i>Erianthus strictus</i>	Narrow Plumegrass	SH	G5		
<i>Eriogonum longifolium</i> var. <i>longifolium</i>	Umbrella Plant	S2	G4T4		
<i>Erysimum capitatum</i> var. <i>capitatum</i>	Western Wallflower	S3?	G5TNR		
<i>Euonymus americanus</i>	Strawberry Bush	S2	G5		
<i>Eupatorium album</i>	White Thoroughwort	SU	G5		
<i>Eupatorium maculatum</i> var. <i>brunneri</i>	Spotted Joe-pye Weed	S1	G5T5		
<i>Eupatorium rotundifolium</i> var. <i>scabridum</i>	A Thoroughwort	S1?	G5T3T5		
<i>Eupatorium semiserratum</i>	A Thoroughwort	S1S2	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Euphorbia geyeri</i> var. <i>geyeri</i>	Geyer's Spurge	S1	G5T5		
<i>Euphorbia ouachitana</i>	A Spurge	SU	GNR		
<i>Eurybia furcata</i>	Forked Aster	S2	G3		
<i>Eurybia macrophylla</i>	Big-leaved Aster	S2	G5		
<i>Festuca sororia</i>	A Fescue	SH	G4		
<i>Filipendula rubra</i>	Queen of the Prairie	S2	G4G5		
<i>Fimbristylis littoralis</i> var. <i>littoralis</i>	A Fimbristylis	S1	G3G5TNR		
<i>Fimbristylis perpusilla</i>	Harper's Fimbry	SH	G2		
<i>Floerkea proserpinacoides</i>	False Mermaid	SU	G5		
<i>Fragaria vesca</i>	Woodland Strawberry	S1	G5		
<i>Fraxinus biltmoreana</i>	Biltmore Ash	SU	G5		
<i>Fuirena simplex</i> var. <i>aristulata</i>	An Umbrella Grass	S2?	G5T4		
<i>Gaillardia aestivalis</i> var. <i>flavovirens</i>	A Blanket Flower	SH	G5T3T5		
<i>Galium boreale</i>	Northern Bedstraw	S2	G5		
<i>Gaylussacia baccata</i>	Black Huckleberry	S1	G5		
<i>Gentiana andrewsii</i> var. <i>andrewsii</i>	Closed Gentian	S1	G5?T5?		
<i>Geocarpon minimum</i>	Geocarpon	S2	G2	E	T
<i>Geum fragarioides</i>	Barren Strawberry	S2	G5T5		
<i>Gillenia trifoliata</i>	Indian Physic	SH	G4G5		
<i>Glyceria acutiflora</i>	Sharp-scaled Manna Grass	S3	G5		
<i>Glyceria septentrionalis</i> var. <i>arkansana</i>	Eastern Manna Grass	SU	G5		
<i>Glycyrrhiza lepidota</i> var. <i>lepidota</i>	Wild Licorice	S1	G5TNRQ		
<i>Gratiola viscidula</i>	Hedge Hyssop	S1	G4G5		
<i>Grindelia ciliata</i>	A Goldenweed	S1	G4G5		
<i>Helanthium tenellum</i>	Dwarf Burhead	S1	G5?		
<i>Helenium virginicum</i>	Virginia Sneezeweed	S3	G3	E	T
<i>Helianthemum canadense</i>	A Rockrose	SU	G5		
<i>Helianthus angustifolius</i>	Swamp Sunflower	S2	G5		
<i>Helianthus decapetalus</i>	Thin-leaved Sunflower	SU	G5		
<i>Heliotropium curassavicum</i> var. <i>curassavicum</i>	Seaside Heliotrope	S1	G5T5		
<i>Heteranthera reniformis</i>	Mud Plantain	SU	G5		
<i>Heterotheca canescens</i>	Hoary Golden Aster	SH	G5?		
<i>Heuchera parviflora</i> var. <i>parviflora</i>	Little Leaved Alum Root	S1	G4T4		
<i>Hottonia inflata</i>	Featherfoil	S2	G4		
<i>Houstonia canadensis</i>	Canadian Summer Bluet	S1	G4G5		
<i>Houstonia rosea</i>	Rose Bluets	SH	G5		
<i>Hydrocotyle ranunculoides</i>	Floating Pennywort	S1S2	G5		
<i>Hydrocotyle verticillata</i>	Water Pennywort	S1	G5		
<i>Hydrolea ovata</i>	Ovate Fiddleleaf	S2	G5		
<i>Hypericum adpressum</i>	Creeping St. John's-wort	S1	G3		
<i>Hypericum lobocarpum</i>	A St. John's Wort	S1	G4Q		
<i>Hypericum majus</i>	Greater St. John's-wort	SH	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Hypericum pyramidatum</i>	Great St. John's-wort	S1	G4T4		
<i>Ilex verticillata</i> var. <i>padifolia</i>	Winterberry	S3	G5TNR		
<i>Isolepis molesta</i>	Gulf Coast Bulrush	SH	G4?		
<i>Isotria medeoloides</i>	Small Whorled Pogonia	SH	G2G3	E	T
<i>Isotria verticillata</i>	Large Whorled Pogonia	S1S2	G5		
<i>Juglans cinerea</i>	Butternut	SU	G3		
<i>Juncus alpinoarticulatus</i>	Richardson Rush	SH	G5		
<i>Juncus balticus</i> var. <i>littoralis</i>	Baltic Rush	S1	G5T5		
<i>Juncus brachyphyllus</i>	Small-headed Rush	S3	G5		
<i>Juncus bufonius</i> var. <i>bufonius</i>	Toad Rush	S1	G5T5		
<i>Juncus canadensis</i> var. <i>canadensis</i>	Canada Rush	S1	G5T5		
<i>Juncus debilis</i>	Weak Rush	S1	G5		
<i>Juncus filipendulus</i>	Ringseed Rush	SU	G5		
<i>Juncus nodosus</i>	Knotted Rush	SH	G5		
<i>Juncus validus</i>	A Rush	S1	G5		
<i>Justicia ovata</i> var. <i>lanceolata</i>	A Water Willow	S2	G5T4T5		
<i>Kellochloa verrucosa</i>	Warty Panicgrass	S1	G4		
<i>Lactuca hirsuta</i>	Hairy Lettuce	S3	G5?		
<i>Lactuca ludoviciana</i>	Western Lettuce	S1	G4G5		
<i>Lactuca tatarica</i> ssp. <i>pulchella</i>	Blue Lettuce	S1	G5T5		
<i>Lathyrus pusillus</i>	A Wild Pea	SH	G5?		
<i>Lathyrus venosus</i>	Bushy Vetchling	SU	G5		
<i>Leavenworthia torulosa</i>	Necklace Goldcress	SU	G4		
<i>Lechea racemulosa</i>	Illinois Pinweed	SH	G5		
<i>Leitneria pilosa</i> ssp. <i>ozarkana</i>	Corkwood	S2	G2G3T2T3		
<i>Lemna obscura</i>	A Duckweed	SU	G5		
<i>Lemna trisulca</i>	Star Duckweed	S2	G5		
<i>Lemna turionifera</i>	A Duckweed	SH	G5		
<i>Liatris punctata</i> var. <i>punctata</i>	A Blazing Star	S3	G5T5		
<i>Liatris scariosa</i> var. <i>nieuwlandii</i>	A Blazing Star	S2	G5?T3T5		
<i>Liatris spicata</i>	Button Snakeroot	SX	G5		
<i>Lilium philadelphicum</i> var. <i>andinum</i>	Wood Lily	S1	G5T4T5		
<i>Lilium superbum</i>	Turk's Cap Lily	S1	G5		
<i>Limnobium spongia</i> ssp. <i>spongia</i>	American Frogbit	S2	G4		
<i>Limnosciadium pinnatum</i>	Pinnate Dogshade	S1	G5?		
<i>Limosella aquatica</i>	Mudwort	SH	G5		
<i>Lindera melissifolia</i>	Pondberry	S1	G3	E	E
<i>Linum floridanum</i> var. <i>floridanum</i>	Florida Yellow Flax	SU	G5?T5?		
<i>Liparis loeselii</i>	Loesel's Twayblade	S2	G5		
<i>Lipocarpha aristulata</i>	Lipocarpha	SH	G5?		
<i>Lipocarpha drummondii</i>	A Lipocarpha	S1	G4G5		
<i>Lippia nodiflora</i>	Fog Fruit	SH	G5		
<i>Listera australis</i>	Southern Twayblade	S1	G4		
<i>Lithospermum latifolium</i>	American Gromwell	S2	G4		
<i>Lobelia puberula</i>	Downy Lobelia	SH	G5		

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FLOWERING PLANTS (Cont.)					
<i>Lomatium foeniculaceum</i> ssp. <i>foeniculaceum</i>	Hairy Parsley	S1S3	G5T5		
<i>Ludwigia glandulosa</i> ssp. <i>glandulosa</i>	Cylindricfruit Primrose-willow	S2	G5T5		
<i>Ludwigia leptocarpa</i>	Primrose Willow	S2	G5		
<i>Ludwigia linearis</i>	Narrow-leaved Primrose	S1	G5		
<i>Ludwigia microcarpa</i>	A False Loosestrife	S2	G5		
<i>Ludwigia repens</i>	A False Loosestrife	SU	G5		
<i>Lycopus asper</i>	Bugle Weed	SH	G5		
<i>Lycopus uniflorus</i>	Northern Bugleweed	S1	G5		
<i>Lygodesmia juncea</i>	Skeleton Plant	S3	G5		
<i>Lyonia mariana</i>	Stagger Bush	SH	G5		
<i>Lysimachia terrestris</i>	Swamp Candle	S1	G5		
<i>Lysimachia thyrsiflora</i>	Tufted Loosestrife	S1	G5		
<i>Maianthemum stellatum</i>	Starry False Solomon's Seal	SU	G5		
<i>Malus angustifolia</i>	Narrow-leaved Wild Crab	S2	G5?		
<i>Marshallia caespitosa</i> var. <i>caespitosa</i>	Barbara's Buttons	S3	G4T4		
<i>Marshallia caespitosa</i> var. <i>signata</i>	Barbara's Buttons	S1	G4T4		
<i>Mecardonia acuminata</i>	Water Hyssop	S1	G5		
<i>Medeola virginiana</i>	Indian Cucumber-root	SH	G5		
<i>Melica mutica</i>	Two-flowered Melic Grass	S1	G5		
<i>Melothria pendula</i>	Creeping Cucumber	S3	G5?		
<i>Menyanthes trifoliata</i>	Bogbean	S1	G5		
<i>Mimosa strigillosa</i>	Powderpuff	S1	G4G5		
<i>Mimulus glabratus</i> var. <i>jamesii</i>	Roundleaf Monkey Flower	SH	G5T5		
<i>Minuartia muscorum</i>	Dixie Stitchwort	S1	GNR		
<i>Mirabilis linearis</i> var. <i>linearis</i>	Narrow-leaved Four-o'clock	SU	G5TNR		
<i>Mitreola petiolata</i>	Miterwort	S1	G5		
<i>Moehringia lateriflora</i>	Grove Sandwort	S2S3	G5		
<i>Monarda clinopodia</i>	A Horsemint	S1	G5		
<i>Monarda punctata</i> var. <i>arkansana</i>	Arkansas Bee Balm	SA	G5TNR		
<i>Monarda punctata</i> var. <i>occidentalis</i>	Dotted Monarda	SA	G5T4T5		
<i>Monarda punctata</i> var. <i>villicaulis</i>	Horsemint	S3	G5T5?		
<i>Muhlenbergia asperifolia</i>	Scratchgrass	S1	G5		
<i>Muhlenbergia cuspidata</i>	Plains Muhly	SU	G5		
<i>Muhlenbergia glabrifloris</i>	Inland Muhly	SU	G4?		
<i>Najas flexilis</i>	A Naiad	SH	G5		
<i>Najas gracillima</i>	Thread-like Naiad	S2	G5?		
<i>Nemastylis geminiflora</i>	Prairie Iris	S2	G4		
<i>Neiviusia alabamensis</i>	Snow Wreath	SH	G3		
<i>Nothocalais cuspidata</i>	Prairie Dandelion	S2	G5		
<i>Nyssa biflora</i>	Swamp Black Gum	SH	G5		
<i>Obularia virginica</i>	Virginia Pennywort	S2	G5		
<i>Oenothera clelandii</i>	Evening Primrose	S2	G3G5		

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FLOWERING PLANTS (Cont.)					
<i>Oenothera fruticosa</i> ssp. <i>fruticosa</i>	Shrubby Sundrops	S1	G5T5		
<i>Oenothera fruticosa</i> ssp. <i>glaucia</i>	Shrubby Sundrops	SH	G5T5		
<i>Oenothera glaucifolia</i>	Stenosiphon	S2	G5		
<i>Oenothera grandis</i>	Cut-leaved Evening Primrose	SU	G5?		
<i>Oenothera nutans</i>	Nodding Evening Primrose	S1S2	G4		
<i>Oenothera parviflora</i>	Northern Evening Primrose	SU	G5		
<i>Oenothera perennis</i>	Small Sundrops	S1	G5		
<i>Oenothera rhombipetala</i>	An Evening Primrose	SH	G4G5		
<i>Oenothera suffrutescens</i>	Scarlet Gaura	S1	G5		
<i>Oenothera triloba</i>	Stemless Evening Primrose	S2	G4		
<i>Oldenlandia boscii</i>	A Bluet	S1	G5		
<i>Oldenlandia uniflora</i>	Clustered Bluets	S1	G5		
<i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>	Low Prickly Pear	S2	G5T5		
<i>Orobanche ludoviciana</i>	A Broomrape	S1	G5		
<i>Orobanche riparia</i>	A Broomrape	S1	G4?		
<i>Oxytropis lambertii</i> var. <i>lambertii</i>	Locoweed	S2	G5TNR		
<i>Packera tomentosa</i>	Hairy Groundsel	SH	G4G5		
<i>Paronychia virginica</i>	Virginia Whitlow Wort	S1	G4		
<i>Paspalum bifidum</i>	Pitchfork Paspalum	S1	G5		
<i>Paspalum dissectum</i>	Mudbank Paspalum	SH	G4?		
<i>Paspalum setaceum</i> var. <i>setaceum</i>	Slender Paspalum	S1	G5T5		
<i>Patis racemosa</i>	Black-seeded Mountain Rice	S1	G5		
<i>Pediomelum argophyllum</i>	Silvery Psoralea	S2	G5		
<i>Peltandra virginica</i> ssp. <i>virginica</i>	Arrow Arum	S2	G5T5		
<i>Penstemon cobaea</i> var. <i>purpureus</i>	Purple Beard-tongue	S3	G4TNRQ		
<i>Penstemon grandiflorus</i>	Large Beard-tongue	S1	G5?		
<i>Penstemon tenuis</i>	Gulf Coast Beard-tongue	SU	G4		
<i>Perideridia americana</i>	Eastern Eulophus	S2	G4		
<i>Persicaria amphibia</i> var. <i>stipulacea</i>	Water Smartweed	S1	G5T5		
<i>Persicaria arifolia</i>	Halberd-leaved Tear Thumb	S1	G5		
<i>Persicaria bicornis</i>	Pink Smartweed	SU	GNR		
<i>Persicaria glabra</i>	Dense-flower Smartweed	S1S2	G5		
<i>Persicaria robustior</i>	Dotted Smartweed	SH	G4G5		
<i>Phacelia covillei</i>	Coville's Phacelia	S1	G3		
<i>Philadelphus pubescens</i> var. <i>verrucosus</i>	Mock Orange	S1	G5?TU		
<i>Phlox amplifolia</i>	Large-leaved Phlox	S3?	G3G5		
<i>Phlox bifida</i>	Bifid Phlox	S1	G5?		
<i>Phlox maculata</i> ssp. <i>pyramidalis</i>	Wild Sweet William	S2	G5T4T5		
<i>Phyllanthus polygonoides</i>	Knotweed Leaf-flower	S1	G5		

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FLOWERING PLANTS (Cont.)					
<i>Physalis grisea</i>	Strawberry-tomato	SU	G5?		
<i>Physalis missouriensis</i>	Missouri Groundcherry	SU	G5?		
<i>Physaria filiformis</i>	Missouri Bladderpod	S3	G3	E	T
<i>Physostegia intermedia</i>	A False Dragonhead	S1	G5		
<i>Planera aquatica</i>	Water Elm	SU	G5		
<i>Plantago heterophylla</i>	Slender Plantain	SU	G5		
<i>Plantago patagonica</i>	Woolly Plantain	S2	G5		
<i>Platanthera ciliaris</i>	Yellow-fringed Orchid	S1	G5		
<i>Platanthera clavellata</i>	Green Wood Orchid	S2	G5		
<i>Platanthera flava</i> var. <i>flava</i>	Pale Green Orchid	S2	G4?T4?Q		
<i>Platanthera flava</i> var. <i>herbiola</i>	Northern Rein Orchid	S2	G4?T4Q		
<i>Platanthera leucophaea</i>	Eastern Prairie Fringed Orchid	S1	G2G3	E	T
<i>Platanthera praecalaria</i>	Western Prairie Fringed Orchid	S1	G3	E	T
<i>Platanthera psycodes</i>	Small Purple-fringed Orchid	SX	G5		
<i>Pluchea foetida</i> var. <i>foetida</i>	March Fleabane	SH	G5T5		
<i>Pogonia ophioglossoides</i>	Snake-mouth Orchid	S1	G5		
<i>Polygonum americanum</i>	Jointweed	S2	G5		
<i>Polymnia laevigata</i>	Smooth Leaf-cup	SX	G3		
<i>Populus grandidentata</i>	Big-toothed Aspen	S1	G5		
<i>Populus tremuloides</i>	Quaking Aspen	S2	G5		
<i>Portulaca pilosa</i>	Kiss Me Quick	SU	G5		
<i>Potamogeton epihydrus</i>	Nuttall Pondweed	SH	G5		
<i>Potamogeton pulcher</i>	Spotted Pondweed	S2S3	G5		
<i>Potamogeton pusillus</i> var. <i>pusillus</i>	Slender Pondweed	S3	G5T5		
<i>Potentilla supina</i> ssp. <i>paradoxa</i>	Bushy Cinquefoil	S2	G5T5		
<i>Prenanthes racemosa</i>	Rattlesnake Root	SH	G5		
<i>Primula fassettii</i>	Amethyst Shooting Star	S2	G4		
<i>Primula frenchii</i>	French's Shooting Star	S1	G3?		
<i>Proserpinaca palustris</i> var. <i>palustris</i>	Mermaid Weed	SU	G5T5		
<i>Pseudognaphalium helleri</i>	Heller's Cudweed	SU	G4G5		
<i>Pseudognaphalium micradenium</i>	Rabbit Tobacco	SU	G4G5T3?		
<i>Ptilimnium capillaceum</i>	Mock Bishop's Weed	SH	G5		
<i>Pycnanthemum muticum</i>	Blunt Mountain Mint	S2	G5		
<i>Pycnanthemum torrei</i>	Torrey Mountain Mint	SH	G2		
<i>Quercus ellipsoidalis</i>	Northern Pin Oak	S1	G5		
<i>Quercus margarettiae</i>	Sand Post Oak	SRF	G5		
<i>Quercus nigra</i>	Water Oak	S2	G5		
<i>Quercus prinoides</i>	Dwarf Chinquapin Oak	S3?	G5		
<i>Quercus texana</i>	Nuttall's Oak	S2	G4G5		
<i>Ranunculus cymbalaria</i>	Seaside Crowfoot	SH	G5		
<i>Rhynchosia difformis</i>	Double-formed Snoutbean	S1	G5?		
<i>Rhynchospora globularis</i> var. <i>globularis</i>	Globe Beaksedge	S1	G5?T5?		
<i>Rhynchospora glomerata</i>	Clustered Beaksedge	SU	G5		

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FLOWERING PLANTS (Cont.)					
<i>Rhynchospora harveyi</i>	Harvey's Beak-rush	S1	G4		
<i>Rhynchospora macrostachya</i> var. <i>macrostachya</i>	Horned Rush	S1	G4T4Q		
<i>Rhynchospora scirpoides</i>	Longbeak Beaksedge	SU	G4		
<i>Ribes americanum</i>	Gooseberry	S1	G5		
<i>Rorippa aquatica</i>	Lake Cress	S2	G4?		
<i>Rorippa tenerrima</i>	Modoc Yellowcress	S1	G5		
<i>Rosa blanda</i>	Smooth Rose	S1	G5		
<i>Rosa foliolosa</i>	White Prairie Rose	S1	G5		
<i>Rubus plicatifolius</i>	A Blackberry	SU	G5		
<i>Rubus rosa</i>	Rose Blackberry	SU	G5		
<i>Rubus satis</i>	Ithaca Blackberry	SU	G4G5Q		
<i>Rudbeckia amplexicaulis</i>	Clasping Leaved Coneflower	S1	G5		
<i>Rudbeckia bicolor</i>	Pine-woods Coneflower	S1	G3G5		
<i>Rudbeckia grandiflora</i> var. <i>grandiflora</i>	Rough Coneflower	S1	G5T4?		
<i>Ruppia maritima</i>	Ditch Grass	S1	G5		
<i>Sabatia brachiata</i>	Marsh Pink	S1	G5?		
<i>Sacciolepis striata</i>	American Cupscale	S1	G5		
<i>Sagina procumbens</i>	Matted Pearlwort	SU	G5		
<i>Sagittaria ambigua</i>	Kansas Arrowhead	S1	G2?		
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead	S1	G5		
<i>Salix discolor</i>	Pussy Willow	S1	G5		
<i>Salix famelica</i>	Diamond Willow	SU	G5		
<i>Salix petiolaris</i>	Meadow Willow	S1	G5		
<i>Sambucus pubens</i>	Red-berried Elderberry	S1	G4G5Q		
<i>Sanicula smallii</i>	Black Snakeroot	SH	G5		
<i>Sapindus saponaria</i> var. <i>drummondii</i>	Soapberry	S2	G5T5		
<i>Schoenoplectiella hallii</i>	Hall's Bulrush	S2	G3		
<i>Schoenoplectiella purshiana</i>	Weakstalk Bulrush	S2	G4G5		
<i>Schoenoplectiella saximontana</i>	Rocky Mountain Bulrush	S1	G5		
<i>Schoenoplectus americanus</i>	Olney's Bulrush	SH	G5		
<i>Schoenoplectus californicus</i>	Giant Bulrush	S1	G5		
<i>Schoenoplectus deltarum</i>	Delta Bulrush	SH	G3G4		
<i>Schoenoplectus etuberculatus</i>	Canby's Bulrush	SH	G3G4		
<i>Schoenoplectus heterochaetus</i>	Giant Bulrush	SU	G5		
<i>Schoenoplectus subterminalis</i>	Swaying Rush	S1	G5		
<i>Schoenoplectus torreyi</i>	Torrey's Bulrush	SH	G5?		
<i>Scirpus divaricatus</i>	A Bulrush	SH	G5		
<i>Scirpus pallidus</i>	Pale Bulrush	S2	G5		
<i>Scirpus pedicellatus</i>	A Bulrush	S2	G4		
<i>Scleria reticularis</i> var. <i>pubescens</i>	Muhlenberg's Nut-rush	S1	G5		
<i>Scrophularia lanceolata</i>	Early Figwort	SH	G5		
<i>Scutellaria elliptica</i> var. <i>hirsuta</i>	Hairy Skullcap	SH	G5T5		
<i>Scutellaria galericulata</i>	Marsh Skullcap	S1	G5		
<i>Sida elliptii</i>	Elliott Sida	S1	G4G5		

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FLOWERING PLANTS (Cont.)					
<i>Sisyrinchium atlanticum</i>	Eastern Blue-eyed Grass	S2	G5		
<i>Smilax illinoensis</i>	Carrion Flower	S2S3	G4?		
<i>Solanum elaeagnifolium</i>	White Horse Nettle	SU	G4G5		
<i>Solidago riddellii</i>	Riddell's Goldenrod	S3	G5		
<i>Solidago rigida</i> ssp. <i>humilis</i>	Stiff Goldenrod	SU	G5T5		
<i>Spermolepis diffusa</i>	Rough-fruit Spermolepis	S1	GNR		
<i>Sphenopholis pensylvanica</i>	Swamp Oats	SH	G4		
<i>Spiraea alba</i> var. <i>alba</i>	Meadow-sweet	S1	G5T5		
<i>Spiraea tomentosa</i>	Hardhack	S1	G5		
<i>Spiranthes praecox</i>	Greenvein Ladies' Tresses	S1	G5		
<i>Sporobolus airoides</i>	Alkali Sacaton	SH	G5		
<i>Stachys aspera</i>	Hedge Nettle	SH	G4?		
<i>Steinichisma hians</i>	Gaping Panic Grass	S3	G5		
<i>Stylosma pickeringii</i> var. <i>pattersonii</i>	A Stylosma	S1	G4T4		
<i>Styrax grandifolius</i>	Bigleaf Snowbell	SU	G5		
<i>Sullivantia sullivantii</i>	Sullivantia	S2	G4		
<i>Symporicarpos occidentalis</i>	Wolfberry	S1	G5		
<i>Sympyotrichum ciliatum</i>	Rayless Alkali Aster	SH	G5		
<i>Sympyotrichum patens</i> var. <i>gracile</i>	Spreading Aster	SU	G5T4T5		
<i>Sympyotrichum racemosum</i> var. <i>subdumosum</i>	Small White Aster	S2	G4G5T3T5Q		
<i>Thalia dealbata</i>	Water Canna	S2	G4		
<i>Thelesperma filifolium</i>	Thelesperma	S2	G4G5		
<i>Tilia americana</i> var. <i>heterophylla</i>	White Basswood	SU	G5T5		
<i>Tipularia discolor</i>	Cranefly Orchid	S3	G4G5		
<i>Torreyochloa pallida</i> var. <i>pallida</i>	Pale Manna Grass	S1	G5T5?		
<i>Tradescantia ozarkana</i>	Ozark Spiderwort	S2	G3		
<i>Tragia cordata</i>	Heart-leaved Noseburn	S2	G4		
<i>Trautvetteria carolinensis</i>	False Bugbane	S2	G5		
<i>Trepocarpus aethusae</i>	Trepocarpus	S1	G4G5		
<i>Triadenum tubulosum</i>	Marsh St. John's Wort	S1	G4?		
<i>Trichostema setaceum</i>	Blue Curls	S1	G5		
<i>Tridens flavus</i> var. <i>chapmanii</i>	A Grass	S2	G5T3		
<i>Tridens muticus</i> var. <i>elongatus</i>	Slim Tridens	SH	G5T4?		
<i>Trifolium carolinianum</i>	Carolina Clover	S1	G5		
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	S1	G3	E	
<i>Trillium nivale</i>	Snow Trillium	S3	G4		
<i>Trillium pusillum</i> var. <i>ozarkanum</i>	Ozark Wake Robin	S2	G4T3		
<i>Triodanis holzingeri</i>	A Venus' Looking Glass	SH	G4		
<i>Triodanis lamprosperma</i>	A Venus' Looking Glass	S2	G5?		
<i>Turritis glabra</i>	Tower Mustard	S1	G5		
<i>Typha domingensis</i>	Southern Cattail	S1	G4G5		
<i>Ulmus crassifolia</i>	Cedar Elm	S1	G5		
<i>Ulmus thomasii</i>	Rock Elm	S2	G5		
<i>Urtica chamaedryoides</i>	Weak Nettle	S1	G4G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Utricularia minor</i>	Lesser Bladderwort	S1	G5		
<i>Utricularia subulata</i>	Slender Bladderwort	S1	G5		
<i>Valerianella ozarkana</i>	Ozark Corn Salad	S2	G3		
<i>Veronica americana</i>	American Brooklime	SH	G5		
<i>Viburnum bracteatum</i>	Ozark Arrow Wood	S1S2	G3		
<i>Viburnum dentatum</i>	Southern Arrow-wood	S1	G5		
<i>Viburnum lentago</i>	Nannyberry	S1	G5		
<i>Viburnum recognitum</i>	Northern Arrow-wood	S1	G4G5		
<i>Vicia americana</i>	American Vetch	S1	G5		
<i>Vicia ludoviciana</i> ssp. <i>leavenworthii</i>	Louisiana Vetch	SH	G5T5		
<i>Vicia minutiflora</i>	Pygmy-flowered Vetch	SH	G5		
<i>Viola affinis</i>	Sand Violet	S1	G5		
<i>Viola pallens</i>	Smooth White Violet	S2	G5T5		
<i>Vitis rotundifolia</i> var. <i>rotundifolia</i>	Muscadine	S1	G5T5		
<i>Wolffia borealis</i>	Dotted Watermeal	SU	G5		
<i>Wolffia columbiana</i>	Columbia Water-meal	SU	G5		
<i>Wolffiella gladiata</i>	Wolffiella	S1	G5		
<i>Xyris jupicai</i>	Yellow-eyed-grass	S1	G5		
<i>Xyris torta</i>	Yellow-eyed Grass	S1	G5		
<i>Yucca arkansana</i>	Arkansas Yucca	S2	G5		
<i>Yucca glauca</i>	Small Soapweed Yucca	S2	G5		
<i>Zannichellia palustris</i> var. <i>major</i>	Horned Pondweed	S3?	G5TNR		
<i>Zigadenus elegans</i> ssp. <i>glaucus</i>	White Camas	S2	G5T4T5		
<i>Zigadenus nuttallii</i>	Death Camas	S1	G5		
<i>Zizania palustris</i> var. <i>interior</i>	Interior Wild Rice	SH	G5T4T5		

Total Flowering Plant Records: 539

FLATWORMS

<i>Kenkia glandulosa</i>	Pink Planarian	S1	G2G3	
<i>Macrocotyla lewisi</i>	Lewis' Cave Planarian	S1	G1	
<i>Sphalloplana evaginata</i>	Perryville Cave Planarian	S1	G1G2	
<i>Sphalloplana hubrichti</i>	Hubricht's Cave Planarian	S1	G2G4	

Total Flatworm Records: 4

MOLLUSKS

<i>Alasmidonta marginata</i>	Elktoe	S2	G4	
<i>Alasmidonta viridis</i>	Slippershell Mussel	S1	G4G5	E
<i>Amnicola stygius</i>	Stygian Amnicola	S1	G1	
<i>Anodontoides ferussacianus</i>	Cylindrical Papershell	S1	G5	
<i>Antrobia culveri</i>	Tumbling Creek Cavesnail	S1	G1	E
<i>Arcidens confragosus</i>	Rock Pocketbook	S3	G4	
<i>Campeloma crassulum</i>	Ponderous Campeloma	SU	G5	
<i>Cochlicopa moseana</i>	Appalachian Pillar	S3	G5	
<i>Cumberlandia monodonta</i>	Spectaclecase	S3	G3	E
<i>Cyclonaias nodulata</i>	Wartyback	S3	G4	
<i>Cyprogenia aberti</i>	Western Fanshell	S2	G2G3Q	

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOLLUSKS (Cont.)					
<i>Discus nigrimontanus</i>	Black Mountain Disc	S3	G4		
<i>Elliptio crassidens</i>	Elephantear	S1	G5	E	
<i>Epioblasma curtisii</i>	Curtis Pearlymussel	S1	G1	E	E
<i>Epioblasma triquetra</i>	Snuffbox	S1	G3	E	E
<i>Fontigens aldrichi</i>	Hoosier Springsnail	S4	G4		
<i>Fontigens antroecetes</i>	Missouri Cavesnail	S2	G2		
<i>Fontigens proserpina</i>	Proserpine Cavesnail	S1	G1		
<i>Gastrocopta abbreviata</i>	Plains Snaggletooth	S1	G4		
<i>Gastrocopta cristata</i>	Crested Snaggletooth	S1	G5		
<i>Gastrocopta pellucida</i>	Slim Snaggletooth	S1	G5		
<i>Gastrocopta similis</i>	Great Lakes Snaggletooth	S2	G5		
<i>Glyphyalinia solida</i>	Imperforate Glyph	S1	G5		
<i>Glyphyalinia wheatleyi</i>	Bright Glyph	S1	G5		
<i>Hawaiia alachuana</i>	Southeastern Gem	S1	G4G5Q		
<i>Hendersonia occulta</i>	Cherrystone Drop	S1	G4		
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G1G2	E	E
<i>Lampsilis brittisi</i>	Northern Brokenray	S3	G3		
<i>Lampsilis higginsii</i>	Higgins Eye	S1	G1G2	E	E
<i>Lampsilis rafinesqueana</i>	Neosho Mucket	S2	G1	E	E
<i>Leaunio lienosus</i>	Little Spectaclecase	S3	G5		
<i>Leptoxis arkansensis</i>	Arkansas Mudalia	S1	G1		
<i>Ligumia recta</i>	Black Sandshell	S2	G4G5		
<i>Lioplax sulculosa</i>	Furrowed Lioplax	S1	G5		
<i>Lucilla singleyanus</i>	Smooth Coil	S1	G5		
<i>Marstonia ozarkensis</i>	Ozark Pyrg	SH	G1		
<i>Marstonia scalariformis</i>	Moss Pyrg	S1	G1		
<i>Mesodon mitchellianus</i>	Sealed Goblet	S1	G4		
<i>Micromenetus sampsoni</i>	Sampson Sprite	S2	G2G3Q		
<i>Millerelix deltoidea</i>	Oklahoma Liptooth	SH	G2		
<i>Neohelix divesta</i>	Ozark Whitelip	S3	G3G4		
<i>Obovaria arkansensis</i>	Southern Hickorynut	S1	GNR		
<i>Obovaria olivaria</i>	Hickorynut	S3	G4		
<i>Oxyloma retusum</i>	Blunt Ambersnail	S1	G5		
<i>Paravitrea simpsoni</i>	Amber Supercoil	S1	G4		
<i>Patera pennsylvanica</i>	Proud Globelet	S2	G4		
<i>Patera perigrapta</i>	Engraved Bladetooth	S1	G5		
<i>Plectomerus dombeyanus</i>	Bankclimber	S3	G5		
<i>Plethobasus cyphyus</i>	Sheepnose	S2	G3	E	E
<i>Pleurocera alveare</i>	Rugged Hornsnail	S1S3	G3		
<i>Potamilus capax</i>	Fat Pocketbook	S1	G2	E	E
<i>Potamilus leptodon</i>	Scaleshell	S1	G1G2	E	E
<i>Ptychobranchus occidentalis</i>	Ouachita Kidneyshell	S3	G3G4		
<i>Quadrula fragosa</i>	Winged Mapleleaf	S1	G1	E	E
<i>Reginaia ebenus</i>	Ebonyshell	S1	G4G5	E	
<i>Simpsonaias ambigua</i>	Salamander Mussel	S1	G3	E	
<i>Somatogyrus deppressus</i>	Sandbar Pebblesnail	S2	G2		
<i>Somatogyrus rosewateri</i>	Elk Pebblesnail	S1	G1		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOLLUSKS (Cont.)					
<i>Stagnicola elodes</i>	Marsh Pondsail	S2	G5		
<i>Stenotrema blandianum</i>	Missouri Slitmouth	S2	G2		
<i>Stenotrema labrosum</i>	Ozark Slitmouth	S2	G3G4		
<i>Stenotrema stenotrema</i>	Inland Slitmouth	S3	G5		
<i>Strobilops affinis</i>	Eightfold Pinecone	S1	G4		
<i>Theliderma cylindrica</i>	Rabbitsfoot	S1	G3G4	E	T
<i>Toxolasma lividum</i>	Purple Lilliput	S1	G3		
<i>Toxolasma texasiense</i>	Texas Lilliput	S3	G4		
<i>Triodopsis cragini</i>	Post Oak Threetooth	S1	G4		
<i>Triodopsis discoidea</i>	Rivercliff Threetooth	S1	G3		
<i>Triodopsis neglecta</i>	Ozark Threetooth	S2	G3		
<i>Utterbackiana suborbiculata</i>	Flat Floater	S2	G5		
<i>Vallonia excentrica</i>	Iroquois Vallonia	S3	G5		
<i>Vallonia gracilicosta</i>	Multirib Vallonia	S1	G5		
<i>Ventridens demissus</i>	Perforate Dome	SU	G5		
<i>Vertigo meramecensis</i>	Bluff Vertigo	S3	G2G3		
<i>Vertigo oscariana</i>	Capital Vertigo	S1	G4		
<i>Zonitoides limatulus</i>	Dull Gloss	S1	G4G5		

Total Mollusk Records: 76

ARACHNIDS

<i>Apochthonius mysterius</i>	Mystery Cave	S1	G1G2
<i>Apochthonius typhlus</i>	Pseudoscorpion	S1	G1G2
	Stone County Cave	S1	G1G2
	Pseudoscorpion	S1	G1G2
<i>Hesperochernes occidentalis</i>	Guano Pseudoscorpion	S3	G5
<i>Mundochthonius caverniculus</i>	Cavernicolous	SU	G1G2
	Pseudoscorpion	S1	G5
<i>Phanetta subterranea</i>	Subterranean Cave Spider	S1	G5
<i>Porrhomma cavernicola</i>	Cavernicolous Porrhomma	S2	G5
	Spider	S1	G5

Total Arachnid Records: 6

CRUSTACEANS

<i>Allocrangonyx hubrichti</i>	Hubricht's Long-tailed	S3	G2G3
	Amphipod	S3	G2G3
<i>Bactrurus brachycaudus</i>	Short-tailed Groundwater	S4	G4
	Amphipod	S4	G4
<i>Bactrurus hubrichti</i>	Sword-tail Cave Amphipod	S1	G4
<i>Bactrurus pseudomucronatus</i>	False Sword-tailed Cave	S2	G2G3
	Amphipod	S2	G2G3
<i>Brackenridgeia ashleyi</i>	Ashley's Isopod	S2	G1G3
<i>Caecidotea antricola</i>	A Cave Obligate Isopod	S4	G5
<i>Caecidotea dimorpha</i>	An Isopod	S1S3	G2G3
<i>Caecidotea fustis</i>	Fustis Cave Isopod	S2	G2G3
<i>Caecidotea salemensis</i>	Salem Cave Isopod	S2	G4
<i>Caecidotea serrata</i>	Serrated Cave Isopod	S1	G1G2
<i>Caecidotea stiladactyla</i>	Slender-fingered Cave	S1	G3G4
	Isopod	S1	G3G4

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CRUSTACEANS (Cont.)					
<i>Caecidotea stygia</i>	Stygian Cave Isopod	S1	G5		
<i>Cambarellus puer</i>	Swamp Dwarf Crayfish	S3?	G5		
<i>Cambarellus shufeldtii</i>	Cajun Dwarf Crayfish	S3?	G5		
<i>Cambarus aculabrum</i>	Benton County Cave Crayfish	SP	G1	E	
<i>Cambarus hubrichti</i>	Salem Cave Crayfish	S3	G4		
<i>Cambarus maculatus</i>	Freckled Crayfish	S3	G4		
<i>Cambarus setosus</i>	Bristly Cave Crayfish	S3	G3		
<i>Creaserinus fodiens</i>	Digger Crayfish	S2S3	G5		
<i>Diacyclops yeastmani</i>	Yeatman's Groundwater Copepod	S1S3	G2G3		
<i>Faxonella clypeata</i>	Ditch Fencing Crayfish	S2S3	G5		
<i>Faxonius eupunctus</i>	Coldwater Crayfish	S1	G2	E	
<i>Faxonius harrisonii</i>	Belted Crayfish	S3	G3		
<i>Faxonius lancifer</i>	Shrimp Crayfish	S1S2	G5		
<i>Faxonius marchandi</i>	Mammoth Spring Crayfish	S1S2	G2		
<i>Faxonius medius</i>	Saddleback Crayfish	S3	G4		
<i>Faxonius meeki meeki</i>	Meek's Crayfish	S1	G4T4		
<i>Faxonius neglectus chaenodactylus</i>	Gap Ringed Crayfish	S3	G5T3		
<i>Faxonius peruncus</i>	Big Creek Crayfish	S2	G2	PT	
<i>Faxonius quadruncus</i>	St. Francis River Crayfish	S2	G2	PT	
<i>Faxonius roberti</i>	Spring River Crayfish	SH	GNR	E	
<i>Faxonius wagneri</i>	Eleven Point River Crayfish	S1	GNR		
<i>Faxonius williamsi</i>	Williams' Crayfish	S2	G3		
<i>Lacunicambarus ludovicianus</i>	Painted Devil Crayfish	SU	G5		
<i>Lacunicambarus polychromatus</i>	Paintedhand Mudbug	S1S2	G5		
<i>Lirceus megapodus</i>	An Isopod	SU	GNR		
<i>Macrobrachium ohioense</i>	Ohio Shrimp	S1	G4		
<i>Orconectes stygocaneyi</i>	Caney Mountain Cave Crayfish	S1	G1	E	
<i>Procambarus liberorum</i>	Osage Burrowing Crayfish	S2S3	G4		
<i>Procambarus viaeviridis</i>	Vernal Crayfish	S3?	G5		
<i>Stygobromus barri</i>	Barr's Groundwater Amphipod	S1S3	G2G3		
<i>Stygobromus clantoni</i>	Clanton's Groundwater Amphipod	S1S3	G4		
<i>Stygobromus heteropodus</i>	Pickle Springs Amphipod	SX	G1G2		
<i>Stygobromus onondagaensis</i>	Onondaga Cave Amphipod	S3?	G3		
<i>Stygobromus ozarkensis</i>	Ozark Cave Amphipod	S3?	G4		
<i>Stygobromus subtilis</i>	Subtle Groundwater Amphipod	S1S3	G2		
<i>Triops longicaudatus</i>	Longtail Tadpole Shrimp	SU	G5		

Total Crustacean Records: 47

MILLIPEDES

<i>Causeyella dendropus</i>	Causeyella Cave Millipede	S2	G1G3
<i>Chaetaspis aleyorum</i>	Aleys' Cave Millipede	S1	G1

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>S RANK</u>	<u>G RANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MILLIPEDES (Cont.)					
Tingupa pallida	Tingupa Cave Millipede	S4	G4		
Zosteractis interminata	Zosteractis Cave Millipede	SU	G2G3		
Total Millipede Records: 4					
INSECTS					
Acroneuria ozarkensis	Ozark Stone	S2	G2		
Adalia bipunctata	Two Spotted Lady Beetle	SH	G5		
Agapetus artesus	Artesian Agapetus	S3	G3		
Aleochara speculicollis	Caddisfly				
Allocapnia pygmaea	A Staphylinid Beetle	SU	GNR		
Alloperla hamata	Pygmy Snowfly	S3	G5		
Alloperla leonarda	Barbed Sallfly	S3	G4		
Amblyscirtes linda	Truncate Sallfly	S3	G4		
Amblytropidia mysteca	Linda's Roadside Skipper	S2S3	G2G3		
Amphiagrion saucium	A Glade Grasshopper	SU	G5		
Andrena beameri	Eastern Red Damsel	S2	G5		
Argia alberta	An Andrenid Bee	S3	GNR		
Arigomphus maxwelli	Paiute Dancer	S1	G4		
Arrhopalites clarus	Bayou Clubtail	SU	G5		
Atrytone arogos	Clarus Cave Springtail	S3	G4		
Atrytonopsis hianna	Arogos Skipper	S2	G2G3		
Attaneuria ruralis	Dusted Skipper	S3	G4G5		
Baetisca obesa	Giant Stone	S3	G4		
Beameria venosa	A Mayfly	S3	G5		
Bibloplectus chickasaw	A Concealed-tymbal	S3	GNR		
Bombus affinis	Cicada				
Bombus fervidus	A Staphylinid Beetle	SU	GNR		
Calephelis borealis	Rusty-patched Bumble Bee	SA	G2	E	
Calephelis muticum	Yellow Bumblebee	S1	G3G4		
Catocala abbreviatella	Northern Metalmark	S1	G3		
Catocala dulciola	Swamp Metalmark	S3	G3		
Catocala marmorata	Abbreviated Underwing	S2S3	G3G4		
Catocala pretiosa texarkana	Quiet Underwing	S1S2	G3		
Catocala whitneyi	Marbled Underwing Moth	S3	G3G4		
Chalybion zimmermanni	Precious Underwing Moth	S3?	G4T4		
zimmermanni	Whitney's Underwing	S1	G2G3		
Coccinella novemnotata	A Blue Mud Dauber	SU	GNRTNR		
Conocephalus saltans	Nine-spotted Lady Beetle	SH	G5		
Cylindera celeripes	Prairie Meadow Katydid	S3	G5		
Deinopsis virginiana	Swift Tiger Beetle	S1	G2G4		
Derops divalis	A Staphylinid Beetle	SU	GNR		
Dianthidium texanum	A Staphylinid Beetle	S3	GNR		
Dichagyris reliqua	A Leafcutter Bee	S1	GNR		
Dromochorus pruinina	A Noctuid Moth	S1	G2G3		
Erynnis martialis	Loamy-ground Tiger Beetle	S1	GNR		
	Mottled Duskywing	S3	G3		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
INSECTS (Cont.)					
<i>Eucosma bipunctella</i>	Two-spotted Eucosma	S2S3	GNR		
<i>Euphyes dukesi</i>	Duke's Skipper	S1	G3G4		
<i>Formica creightoni</i>	Creighton's Slavemaking Ant	S3	GNR		
<i>Formica fossaceps</i>	Haystack Thatching Ant	S1	G5		
<i>Formica querquetulana</i>	Oak-grove Ant	S1	GNR		
<i>Gennadota canadensis</i>	A Staphylinid Beetle	SU	GNR		
<i>Glyphopsyche missouri</i>	Missouri Glyphopsyche Caddisfly	S1	G1		
<i>Gomphus fraternus</i>	Midland Clubtail	SU	G5		
<i>Gomphus ventricosus</i>	Skillet Clubtail	SU	G3		
<i>Gryllotalpa major</i>	Prairie Mole Cricket	S3	G3		
<i>Habroscelimorpha circumpicta johnsonii</i>	Saline Spring Tiger Beetle	S1	G5T5		
<i>Hadena ectypa</i>	Starry Campion Moth	S1	G3G4		
<i>Hesperia ottoe</i>	Ottoe Skipper	S1	G3		
<i>Hesperus stehri</i>	A Staphylinid Beetle	SU	GNR		
<i>Hydroperla fugitans</i>	Austin Springfly	S3	G3		
<i>Hydropsyche piatrix</i>	A Net-spinning Caddisfly	S4	G4		
<i>Hystrichophora loricana</i>	An Olethreutine Moth	S1?	G2G4		
<i>Inscudderia taxodii</i>	Bald Cypress Katydid	S1	GNR		
<i>Isoperla burksi</i>	Banded Stripetail	S3	G4		
<i>Isoperla longiseta</i>	Plains Stripetail	SX	G5		
<i>Lasia purpurata</i>	Purple Small-headed Fly	SU	GNR		
<i>Lasioglossum fedorense</i>	A Sweat Bee	S1	GNR		
<i>Leptysma marginicollis</i>	Cattail Toothpick Grasshopper	S2S3	G5		
<i>Leucotrichia pictipes</i>	A Micro Caddisfly	S3	G5		
<i>Libellula auripennis</i>	Golden-winged Skimmer	SU	G5		
<i>Lordithon niger</i>	A Staphylinid Beetle	S3	GU		
<i>Lytrosis permagnaria</i>	A Geometrid Moth	S1	G3G4		
<i>Macropis steironematis</i>	An Oil-collecting Bee	S1	GNR		
<i>Megachile ingenua</i>	A Leafcutter Bee	S1	G2?		
<i>Melanoplus fasciatus</i>	Huckleberry Grasshopper	S3	G5		
<i>Melanoplus francoensis</i>	A Spur-throat Grasshopper	S1	GNR		
<i>Melanoplus impudicus</i>	Immodest Grasshopper	S3	G4G5		
<i>Melanoplus packardii</i>	Packard's Grasshopper	S2	G5		
<i>Melanoplus punctulatus griseus</i>	Grizzly Grasshopper	SU	G5T4		
<i>Melanoplus viridipes viridipes</i>	Green-legged Grasshopper	S3	G4		
<i>Melissodes intorta</i>	A Callirhoe Bee	S1	GNR		
<i>Mermiria picta</i>	Mermiria Grasshopper	S3	G5		
<i>Merope tuber</i>	A Meropid Scorpionfly	S3	G3G5		
<i>Metaleptea brevicornis</i>	Short-horned Grasshopper	S4	G5		
<i>Nehalennia gracilis</i>	Sphagnum Sprite	S1?	G5		
<i>Nehalennia irene</i>	Sedge Sprite	S1	G5		
<i>Neoconocephalus exiliscanorus</i>	Slightly-musical Conehead Katydid	S3	GNR		
<i>Neoconocephalus lyristes</i>	Bog Conehead Katydid	S1	GNR		

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INSECTS (Cont.)					
<i>Neoperla carlsoni</i>	Spiny Stone	S3?	G5		
<i>Neotrichia kitae</i>	Kite's Neotrichian Caddisfly	SU	GU		
<i>Neotridactylus apicialis</i>	Larger Pygmy Grasshopper	SU	GNR		
<i>Nicrophorus americanus</i>	American Burying Beetle	SH	G3	E	T
<i>Ochrotrichia contorta</i>	Contorted Ochrotrichian Micro Caddisfly	SU	G1		
<i>Oeclaeus chrisjohni</i>	A Cixiid Planthopper	SU	GNR		
<i>Oncopodura hoffi</i>	Hoff's Cave Springtail	S1S3	G1G2		
<i>Osmia illinoensis</i>	A Mason Bee	S1	G1		
<i>Oxybleptes kiteleyi</i>	A Staphylinid Beetle	SU	GNR		
<i>Papaipema beeriana</i>	Blazing Star Stem Borer	S2	G2G3		
<i>Papaipema cerina</i>	Golden Borer Moth	SU	G2G4		
<i>Papaipema eryngii</i>	Rattlesnake-master Borer Moth	S3	G1G2		
<i>Papaipema sciata</i>	Culvers Root Borer	SU	G3		
<i>Papaipema silphii</i>	Silphium Borer Moth	S1	G3G4		
<i>Papilio joanae</i>	Ozark Woodland Swallowtail	S1S2	G2?		
<i>Pardalophora saussurei</i>	A Glade Grasshopper	SU	G5		
<i>Paroxya hoosieri</i>	Hoosier Grasshopper	S1	G5		
<i>Pentacora signoreti</i>	A Shore Bug	S1	GNR		
<i>Phoetaliotes nebrascensis</i>	Large-headed Grasshopper	S3	G5		
<i>Photuris missouriensis</i>	Roaring River Firefly	S1	GNR		
<i>Phrixocnemis triculenta</i>	Truculent Camel Cricket	SU	GNR		
<i>Phyllobrotica lengi</i>	A Leaf Beetle	SU	GNR		
<i>Phyllobrotica nigritarsis</i>	A Leaf Beetle	SU	GNR		
<i>Phyllobrotica physostegiae</i>	A Leaf Beetle	S4?	GNR		
<i>Polyergus longicornis</i>	Long-horned Shining Amazon Ant	S1	GNR		
<i>Polyergus montivagus</i>	Foothills Shining Amazon Ant	S1	GNR		
<i>Polyergus ruber</i>	Ruby-red Shining Amazon Ant	S1	GNR		
<i>Polyergus sanwaldi</i>	Sanwald's Shining Amazon Ant	S1	GNR		
<i>Prostoia similis</i>	Longhorn Forestfly	S3	G5		
<i>Pseudomasaris occidentalis</i>	A Pollen Wasp	S3	GNR		
<i>Pseudosinella espana</i>	Espana Cave Springtail	S3	G2G3		
<i>Psimidia fenestralis</i>	Sand Grasshopper	S2S3	G5		
<i>Satyrodes appalachia leeuwi</i>	Appalachian Eyed Brown	S1	G4T4		
<i>Schinia bina</i>	Bina Flower Moth	S2S3	G4		
<i>Schinia lucens</i>	Leadplant Flower Moth	S1	G4		
<i>Sepedophilus campbelli</i>	A Staphylinid Beetle	SU	GNR		
<i>Serratella frisoni</i>	Frison's Seratellan Mayfly	S2	G4		
<i>Sinella avita</i>	Avita Cave Springtail	SU	G3G4		
<i>Sinella barri</i>	Barr's Cave Springtail	SU	G5		
<i>Somatochlora hineana</i>	Hine's Emerald	S2	G2G3	E	E
<i>Somatochlora ozarkensis</i>	Ozark Emerald	S1S2	G3		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
INSECTS (Cont.)					
<i>Somatochlora provocans</i>	Treetop Emerald	S1	G4		
<i>Speyeria diana</i>	Diana Fritillary	SA	G2G3		
<i>Speyeria idalia</i>	Regal Fritillary	S3	G3?		
<i>Stenonema bednariki</i>	A Heptageniid Mayfly	S3	G2G4		
<i>Stethophyma celatum</i>	Sedge Grasshopper	S3	G4		
<i>Stylurus intricatus</i>	Brimstone Clubtail	S1S2	G4		
<i>Stylurus notatus</i>	Elusive Clubtail	S2S3	G3		
<i>Svastra comptata</i>	A Sunflower Bee	S1	GNR		
<i>Tebenna silphiella</i>	Rosinweed Moth	S1	GNR		
<i>Telebasis byersi</i>	Duckweed Firetail	S1	G5		
<i>Telebasis salva</i>	Desert Firetail	SU	G5		
<i>Tenaspis angularis</i>	A Firefly	S1?	GNR		
<i>Tettigidea armata</i>	Spined Grouse Locust	S2S3	G5		
<i>Tomocerus missus</i>	Missus Cave Springtail	SU	G4		
<i>Tricholita notata</i>	Marked Noctuid	S2S3	G5		
<i>Trimerotropis maritima</i>	Seaside Grasshopper	S1	G5		
<i>Xenochalepus potomaca</i>	A Leaf Beetle	SU	GNR		
<i>Xenotrechus condei</i>	Northern Xenotrechus	S1	G1G2		
<i>Xenotrechus denticollis</i>	Cave Beetle				
<i>Xylodromus capito</i>	Southern Xenotrechus	S1	G1G2		
	Cave Beetle				
	A Staphylinid Beetle	SU	GNR		
Total Insect Records: 143					

FISH

<i>Acipenser fulvescens</i>	Lake Sturgeon	S1	G3G4	E	
<i>Alosa alabamae</i>	Alabama Shad	S2	G2G3		
<i>Alosa chrysochloris</i>	Skipjack Herring	SU	G5		
<i>Ameiurus nebulosus</i>	Brown Bullhead	S3?	G5		
<i>Ammocrypta clara</i>	Western Sand Darter	S2S3	G3		
<i>Ammocrypta vivax</i>	Scaly Sand Darter	S3	G5		
<i>Anguilla rostrata</i>	American Eel	SU	G4		
<i>Atractosteus spatula</i>	Alligator Gar	S1	G3G4		
<i>Carpoides velifer</i>	Highfin Carpsucker	S2	G4G5		
<i>Centrarchus macropterus</i>	Flier	S3	G5		
<i>Cottus specus</i>	Grotto Sculpin	S1	G2		E
<i>Crystallaria asprella</i>	Crystal Darter	S1	G3	E	
<i>Cyprinella camura</i>	Bluntnose Shiner	S2S3	G5		
<i>Erimyzon suetta</i>	Lake Chubsucker	S2	G5		
<i>Etheostoma cragini</i>	Arkansas Darter	S3S4	G3G4		
<i>Etheostoma euzonum erizorum</i>	Current Saddled Darter	S3	G3G4T3T4		
<i>Etheostoma euzonum euzonum</i>	Arkansas Saddled Darter	S2	G3G4T3T4		
<i>Etheostoma fusiforme</i>	Swamp Darter	S1	G5	E	
<i>Etheostoma histrio</i>	Harlequin Darter	S2	G5	E	
<i>Etheostoma microperca</i>	Least Darter	S2	G5		
<i>Etheostoma nianguae</i>	Niangua Darter	S2	G2	E	T
<i>Etheostoma parvipinne</i>	Goldstripe Darter	S1	G4G5	E	
<i>Etheostoma whipplei</i>	Redfin Darter	S1	G4	E	

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FISH (Cont.)					
<i>Forbesichthys agassizii</i>	Spring Cavefish	S1	G4	E	
<i>Fundulus chrysotus</i>	Golden Topminnow	S1	G5		
<i>Fundulus dispar</i>	Starhead Topminnow	S2	G4		
<i>Fundulus kansae</i>	Northern Plains Killifish	S2	G5		
<i>Fundulus sciadicus</i>	Plains Topminnow	S3	G4		
<i>Hybognathus argyritis</i>	Western Silvery Minnow	S2	G4		
<i>Hybognathus hankinsoni</i>	Brassy Minnow	S3	G5		
<i>Hybognathus hayi</i>	Cypress Minnow	S1	G4G5	E	
<i>Hybognathus nuchalis</i>	Mississippi Silvery Minnow	S3S4	G5		
<i>Hybognathus placitus</i>	Plains Minnow	S2	G4		
<i>Hybopsis amnis</i>	Pallid Shiner	SU	G4		
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey	S2S3	G5		
<i>Lepomis marginatus</i>	Dollar Sunfish	S2	G5		
<i>Lepomis symmetricus</i>	Bantam Sunfish	S2	G5		
<i>Lethenteron appendix</i>	American Brook Lamprey	S2	G4		
<i>Macrhybopsis gelida</i>	Sturgeon Chub	S3	G3		
<i>Mugil cephalus</i>	Striped Mullet	SA	G5		
<i>Notropis buchanani</i>	Ghost Shiner	S2	G5		
<i>Notropis chalybaeus</i>	Ironcolor Shiner	S1	G4		
<i>Notropis heterolepis</i>	Blacknose Shiner	S2	G5		
<i>Notropis maculatus</i>	Taillight Shiner	S1	G5	E	
<i>Notropis ozarkanu</i> s	Ozark Shiner	S2	G3		
<i>Notropis sabinae</i>	Sabine Shiner	S1	G4	E	
<i>Notropis texanus</i>	Weed Shiner	S3	G5		
<i>Notropis topeka</i>	Topeka Shiner	S1	G3	E	E
<i>Noturus eleutherus</i>	Mountain Madtom	S1S2	G4	E	
<i>Noturus flavater</i>	Checkered Madtom	S3S4	G3G4		
<i>Noturus placidus</i>	Neosho Madtom	S1	G2	E	T
<i>Opsopoeodus emiliae</i>	Pugnose Minnow	S4	G5		
<i>Percina copelandi</i>	Channel Darter	S3	G4		
<i>Percina cymatotaenia</i>	Bluestripe Darter	S2	G2		
<i>Percina nasuta</i>	Longnose Darter	S1	G3	E	
<i>Percina shumardi</i>	River Darter	S3	G5		
<i>Percina uranidea</i>	Stargazing Darter	S2	G3		
<i>Percopsis omiscomaycus</i>	Trout-perch	S1?	G5		
<i>Pimephales tenellus parviceps</i>	Eastern Slim Minnow	S2S3	G4T2T3		
<i>Pimephales tenellus tenellus</i>	Western Slim Minnow	S3	G4T4		
<i>Platygobio gracilis</i>	Flathead Chub	S1	G5	E	
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	S1	G2	E	E
<i>Troglichthys rosae</i>	Ozark Cavefish	S2	G3	E	T
<i>Typhlichthys eigenmanni</i>	Salem Plateau Cavefish	S2S3	GNR		
<i>Umbratilis</i>	Central Mudminnow	S1	G5	E	

Total Fish Records: 65

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
AMPHIBIANS					
<i>Ambystoma annulatum</i>	Ringed Salamander	S3	G4		
<i>Ambystoma talpoideum</i>	Mole Salamander	S2	G5		
<i>Ambystoma tigrinum</i>	Eastern Tiger Salamander	S3	G5		
<i>Amphiuma tridactylum</i>	Three-toed Amphiuma	S2	G5		
<i>Anaxyrus cognatus</i>	Great Plains Toad	S3	G5		
<i>Cryptobranchus alleganiensis</i>	Eastern Hellbender	S1	G3T2	E	E
<i>Cryptobranchus alleganiensis</i> <i>bishopi</i>	Ozark Hellbender	S1	G3T1	E	E
<i>Eurycea spelaea</i>	Grotto Salamander	S2S3	G4		
<i>Hemidactylum scutatum</i>	Four-toed Salamander	S4	G5		
<i>Lithobates areolatus circulosus</i>	Northern Crawfish Frog	S3	G4T4		
<i>Lithobates pipiens</i>	Northern Leopard Frog	S2	G5		
<i>Lithobates sylvaticus</i>	Wood Frog	S3	G5		
<i>Pseudacris illinoensis</i>	Illinois Chorus Frog	S2	G3		
<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	S2	G5		
Total Amphibian Records: 14					
REPTILES					
<i>Cemophora coccinea copei</i>	Northern Scarletsnake	S2S3	G5T5		
<i>Clonophis kirtlandii</i>	Kirtland's Snake	S1	G2		
<i>Crotaphytus collaris</i>	Eastern Collared Lizard	S4	G5		
<i>Deirochelys reticularia miaria</i>	Western Chicken Turtle	S1	G5T5	E	
<i>Emydoidea blandingii</i>	Blanding's Turtle	S1	G4	E	
<i>Farancia abacura reinwardtii</i>	Western Mudsnake	S2	G5T5		
<i>Heterodon gloydi</i>	Dusty Hog-nosed Snake	S1	G3G4Q		
<i>Heterodon nasicus</i>	Plains Hog-nosed Snake	SX	G5		
<i>Kinosternon flavescens</i>	Yellow Mud Turtle	S1	G5	E	
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	S2	G3		PT
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake	SX	G5	E	
<i>Opheodrys vernalis</i>	Smooth Greensnake	SX	G5		
<i>Pantherophis ramspotti</i>	Western Foxsnake	S1	G5		
<i>Pantherophis vulpinus</i>	Eastern Foxsnake	S1	G5		
<i>Phrynosoma cornutum</i>	Texas Horned Lizard	S2	G4G5		
<i>Pituophis catenifer sayi</i>	Bullsnake	SU	G5T5		
<i>Plestiodon obsoletus</i>	Great Plains Skink	S2	G5		
<i>Plestiodon septentrionalis</i> <i>obtusirostris</i>	Southern Prairie Skink	S3	G5T5		
<i>Plestiodon septentrionalis</i> <i>septentrionalis</i>	Northern Prairie Skink	S3	G5T5		
<i>Sistrurus catenatus</i>	Eastern Massasauga	SX	G3	E	T
<i>Sistrurus tergeminus tergeminus</i>	Prairie Massasauga	S1	G3G4TNR	E	
Total Reptile Records: 21					
BIRDS (See Appendix A for Tracking Criteria)					
<i>Accipiter striatus</i>	Sharp-shinned Hawk	S2	G5		
<i>Anhinga anhinga</i>	Anhinga	S3S4	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
BIRDS (Cont.)					
<i>Antigone canadensis</i>	Sandhill Crane	S1	G5		
<i>Antrostomus carolinensis</i>	Chuck-will's-widow	S3	G5		
<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	S3	G5		
<i>Ardea alba</i>	Great Egret	S3	G5		
<i>Asio flammeus</i>	Short-eared Owl	S2	G5		
<i>Asio otus</i>	Long-eared Owl	SU	G5		
<i>Bonasa umbellus</i>	Ruffed Grouse	SU	G5		
<i>Botaurus lentiginosus</i>	American Bittern	S1	G5	E	
<i>Buteo swainsoni</i>	Swainson's Hawk	S2	G5		
<i>Circus hudsonius</i>	Northern Harrier	S2	G5	E	
<i>Cistothorus palustris</i>	Marsh Wren	S3	G5		
<i>Coturnicops noveboracensis</i>	Yellow Rail	SU	G4		
<i>Cygnus buccinator</i>	Trumpeter Swan	S1	G4		
<i>Egretta caerulea</i>	Little Blue Heron	S3	G5		
<i>Egretta thula</i>	Snowy Egret	S1	G5	E	
<i>Falco peregrinus</i>	Peregrine Falcon	S3	G4		
<i>Gallinula galeata</i>	Common Gallinule	S2	G5		
<i>Geococcyx californianus</i>	Greater Roadrunner	S3	G5		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5		
<i>Ictinia mississippiensis</i>	Mississippi Kite	S3	G5		
<i>Ixobrychus exilis</i>	Least Bittern	S3	G4G5		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	S2	G4		
<i>Laterallus jamaicensis</i> jamaicensis	Eastern Black Rail	SU	G3TNR		T
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	S2	G4	E	
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	S3	G5		
<i>Pandion haliaetus</i>	Osprey	S2	G5		
<i>Passerina ciris</i>	Painted Bunting	S3	G5		
<i>Peucaea aestivalis</i>	Bachman's Sparrow	S1	G3	E	
<i>Porzana carolina</i>	Sora	S2	G5		
<i>Rallus elegans</i>	King Rail	S1	G4	E	
<i>Rallus limicola</i>	Virginia Rail	S2	G5		
<i>Setophaga cerulea</i>	Cerulean Warbler	S2S3	G4		
<i>Setophaga virens</i>	Black-throated Green Warbler	SU	G5		
<i>Sitta pusilla</i>	Brown-headed Nuthatch	SU	G4		
<i>Sterna antillarum athalassos</i>	Interior Least Tern	S2	G4T3Q	E	
<i>Thryomanes bewickii</i>	Bewick's Wren	S3	G5		
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	S1	G4	E	
<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird	S3	G5		

Total Bird Records: 40

MAMMALS

<i>Bison bison</i>	American Bison	SX	G4	
<i>Canis lupus</i>	Gray Wolf	SX	G5	E
<i>Canis rufus</i>	Red Wolf	SX	G1Q	E
<i>Cervus elaphus</i>	Elk or Wapiti	S?	G5	

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MAMMALS (Cont.)					
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	S1	G3G4		
<i>Corynorhinus townsendii ingens</i>	Ozark Big-eared Bat	SX	G4T1	E	E
<i>Ictidomys tridecemlineatus</i>	Thirteen-lined Ground Squirrel	S2	G5		
<i>Lasionycteris noctivagans</i>	Silver-haired Bat	S3	G3G4		
<i>Lasiurus cinereus</i>	Hoary Bat	S3	G3G4		
<i>Lasiurus seminolus</i>	Seminole Bat	SA	G5		
<i>Lepus californicus</i>	Black-tailed Jackrabbit	S1	G5	E	
<i>Lepus townsendii</i>	White-tailed Jackrabbit	SX	G5		
<i>Mustela frenata</i>	Long-tailed Weasel	S3	G5		
<i>Mustela nivalis</i>	Least Weasel	S3	G5		
<i>Myotis austroriparius</i>	Southeastern Myotis	S1	G4		
<i>Myotis grisescens</i>	Gray Myotis	S3	G3G4	E	E
<i>Myotis leibii</i>	Eastern Small-footed Myotis	S2	G4		
<i>Myotis lucifugus</i>	Little Brown Myotis	S2	G3G4		
<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	S1	G2G3	E	T
<i>Myotis sodalis</i>	Indiana Myotis	S1	G2	E	E
<i>Ochrotomys nuttalli</i>	Golden Mouse	S3	G5		
<i>Oryzomys palustris</i>	Marsh Rice Rat	SU	G5		
<i>Perimyotis subflavus</i>	Tri-colored Bat	S2	G3G4		
<i>Perognathus flavescens</i>	Plains Pocket Mouse	S1	G5		
<i>Peromyscus gossypinus</i>	Cotton Mouse	S2	G5		
<i>Poliocitellus franklinii</i>	Franklin's Ground Squirrel	S2S3	G5		
<i>Puma concolor</i>	Mountain Lion	SX	G5		
<i>Reithrodontomys montanus</i>	Plains Harvest Mouse	S2	G5		
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	S1	G4T4	E	
<i>Sylvilagus aquaticus</i>	Swamp Rabbit	S2	G5		
<i>Tadarida brasiliensis</i>	Brazilian Free-tailed Bat	SA	G5		
<i>Taxidea taxus</i>	American Badger	S3	G5		

Total Mammal Records: 32

Total Records Processed: 1200

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Johnson, P.D., A.E. Bogan, K.M. Brown, N.M. Burkhead, J.R. Cordeiro, J.T. Garner, P.D. Hartfield, D.A.W. Lepitzki, G.L. Mackie, E. Pip, T.A. Tarpley, J.S. Tiemann, N.V. Whelan, and E.E. Strong. 2013. Conservation status of freshwater gastropods of Canada and the United States. *Fisheries* 38(6):247-282.

Williams, J.D., A.E. Bogan, R.S. Butler, K.S. Cummings, J.T. Garner, J.L. Harris, N.A. Johnson, and G.T. Watters. 2017. A revised list of the freshwater mussels (Mollusca: Bivalvia: Unionida) of the United States and Canada. *Freshwater Mollusk Biology and Conservation* 20:33-58.

For Additional Information:

McMurray, S.E., J.S. Faiman, A. Roberts, B. Simmons, and M.C. Barnhart. 2012. A guide to Missouri's freshwater mussels. Missouri Department of Conservation, Jefferson City, MO.

MOLLUSKS (Cont.)

Oesch, R.D. 1995. Missouri naiades: a guide to the mussels of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 270 pp.

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Wu, S.K., R.D. Oesch and M.E. Gordon. 1997. Missouri aquatic snails. Missouri Department of Conservation. Jefferson City, Missouri. Natural History Series, No. 5. 97 pp.

CRUSTACEANS

Taxonomic Authority:

Committee on the Names of Crustaceans of the United States and Canada of the Crustacean Society and D. Turgeon. 2005. Common and scientific names of aquatic invertebrates from the United States and Canada: crustaceans. American Fisheries Society, Special Publication 31, Bethesda, Maryland.

For Additional Information:

Pflieger, W.L. 1996. The crayfishes of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 152 pp.

INSECTS

Taxonomic Authority:

Poole, R.W. and P. Gentili (Eds.). 1996-97. *Nomina insecta nearctica*. A checklist of the insects of North America. Entomological Information Services. Rockville, M.D. Four volumes.

For Additional Information:

Heitzman, J.R. and J.E. Heitzman. 1987. Butterflies and moths of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 385 pp.

FISH

Taxonomic Authority:

Page, L., E.J. Crossman, H. Espinosa-Perez, L.T. Findley, C.R. Gilbert, R.N. Lea, N.E. Mandrak, R.L. Mayden, and J.S. Nelson. 2013. Common and scientific names of fishes from the United States, Canada, and Mexico. Seventh edition. American Fisheries Society, Special Publication 34. Bethesda, Maryland.

For Additional Information:

Pflieger, W.L. 1997. The fishes of Missouri. Revised edition. Missouri Department of Conservation. Jefferson City, Missouri. 372 pp.

AMPHIBIANS AND REPTILES

Taxonomic Authority:

Crother, B.I. (ed) and Committee. 2017. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with comments regarding confidence in our understanding. Society for the Study of Amphibians and Reptiles. Web Access. September 2017, <http://ssarherps.org/publications/north-american-checklist/north-american-checklist-of-scientific-and-common-names/>.

AMPHIBIANS AND REPTILES (*Cont.*)

For Additional Information:

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BIRDS

Taxonomic Authority:

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Taxonomic Authority:

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FOR MORE INFORMATION

MDC collects and manages information on the location and status of species and natural communities of conservation concern throughout the state. The Missouri Natural Heritage Database is a repository for this information.

If you have information on the location or questions about the status of any element on this *Checklist*, please contact:

Natural Heritage Coordinator
Missouri Department of Conservation
P.O. Box 180
2901 W Truman Blvd
Jefferson City, MO 65109
(573) 522-4115

If you are requesting information about any Element on this *Checklist* for the purposes of environmental review, please write:

Science Branch
Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65109

You can also conduct an online Natural Heritage Review by submitting your information to
<https://naturalheritagereview.mdc.mo.gov/>

WEBPAGE

This checklist is updated annually. The most current version is always available by contacting MDC, Branch. *Checklist* information is also available on MDC's website: <https://mdc.mo.gov/media/114129>.

CITATION

An appropriate citation for this edition of the *Checklist* is:

Missouri Natural Heritage Program. 2022. Missouri species and communities of conservation concern checklist. Missouri Department of Conservation. Jefferson City, Missouri. pp. 57.

APPENDIX A
BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EORS

<u>Species (ranks)</u>	<u>MDC Regions*</u>	<u>Criteria** (safe dates), comments</u>
Anseriformes (Ducks, geese, swans)		
Trumpeter Swan (S1, G4)	All (NE, NW)	1
Galliformes (chicken-like birds)		
Ruffed Grouse (SU, G5)	CN, OZ, SL, SE	1
Greater Prairie-chicken (S1, G4)	SW, KC, NW, NE	Anytime observed
Suliformes (anhinga)		
Anhinga (S3S4, G5)	SE	1
Pelecaniformes (herons, egrets, storks, ibises)		
American Bittern (S1, G5)	All	1- extensive emergent marshes
Least Bittern (S3, G5)	All	1,2 (5/25-8/1)
Great Egret (S3, G5)	All (SE)	1
Snowy Egret (S1, G5)	SE	1
Little Blue Heron (S3, G5)	SE, SL	1
Black-crowned Night-Heron (S3, G5)	All (SE)	1
Accipitriformes (hawks, eagles, kites, vultures)		
Osprey (S2, G5)	All (confirmed NE, SW)	1- Any large open body of water
Mississippi Kite (S3, G5)	All (SE, SL, NE)	1- Expanding range
Bald Eagle (S3, G5)	All	1- Any large open body of water
Northern Harrier (S2, G5)	All (except OZ, SE)	1
Sharp-shinned Hawk (S2, G5)	All	1
Swainson's Hawk (S2, G5)	SW, KC	1
Gruiformes (rails, cranes)		
Yellow Rail (SU, G4)	All	Anytime observed (migrant)
Black Rail (SU, G3G4)	All	Anytime observed, large marshes
King Rail (S1, G4)	All (SE, SL, NE)	1,2,3 (5/15-7/31)
Virginia Rail (S2, G5)	All	1,2 (5/15-8/1)
Sora (S2, G5)	All	1,2 (5/30-7/31)
Common Gallinule (S2, G5)	All (except OZ)	1,2 (5/30-8/31)
Sandhill Crane (S1, G5)	NE, NW, CN, SL	1
Charadriiformes (gulls, terns, shorebirds)		
Interior Least Tern (S2, G4T2Q)	SE	1- Formerly along MS, MO Rivers
Cuculiformes (cuckoos, roadrunners)		
Greater Roadrunner (S3, G5)	SW, OZ	1
Caprimulgiformes (nightjars)		
Eastern Whip-poor-will (S3B, G5)	All	1
Chuck-Will's-widow (S3B, G5)	SW, OZ, SE	1
Strigiformes (Owls)		
Strigiformes (Owls) (Cont.)		
Long-eared Owl (SU, G5)	All	1-Forests, dense thickets near water
Short-eared Owl (S2, G5)	SW, NW, NE, KC	1,2 (5/1-8/31)

Falconiformes (falcons)

Peregrine Falcon (S3, G4) SL, KC 1- Formerly along MO river bluffs

Passeriformes (perching birds)

Loggerhead Shrike (S2, G4)	All (SW, KC, NW)	1,2 (4/20-7/20)
Brown-headed Nuthatch (SU, G4)	All	1
Marsh Wren (S3, G5)	All (except SW, SE, OZ)	1,2 (5/25-8/25)
Swainson's Warbler (S2, G4)	SE, OZ, SW	1,2 (5/25-8/15)
Cerulean Warbler (S2S3, G4)	All (OZ)	1,2,3 (6/1-8/10)
Black-throated Green Warbler (SU, G5)	SE	1
Bachman's Sparrow (S1, G3)	OZ, SW, SE	1,2 (6/1-8/15)
Painted Bunting (S3, G5)	SW, OZ	1,2 (5/25-8/1)
Yellow-headed Blackbird (S3, G5)	NW (possible anywhere)	1
Bewick's Wren (S3, G5)	All	1, 2 (5/15-8/15)

***MDC Regions (where species most likely to be recorded)**

CN - Central	KC - Kansas City
NE - Northeast	NW - Northwest
OZ - Ozark	SL - St. Louis
SE - Southeast	SW - Southwest

****Criteria**

1. Confirmed breeding. Evidenced one or more of the following:

- Nest building (except wrens and woodpeckers)
- Nest with egg(s) or young (seen or heard)
- Used nest or eggshells
- Physiological evidence of breeding based upon bird in hand (e.g. bill)
- Distraction display or injury feigning
- Recently fledged young
- Adults entering or leaving nest site in circumstances indicating nesting
- Adult carrying fecal sac
- Adult carrying food



2. Probable breeding (valid only between safe dates)

- Male and female seen together (not part of a flock)
- Bird holding territory
- Seven or more singing males detected in one visit
- Courtship or copulation
- Visiting probable nest site
- Agitated behavior or anxiety call (not provoked by observer)
- Nest building by wrens or woodpeckers

3. Possible breeding (valid only between safe dates)

- Species heard or seen in breeding habitat
- Species heard or seen but not in breeding habitat

APPENDIX B
MISSOURI BIRD CONSERVATION PLAN FOCAL SPECIES *

Natural Community	Common Name	MO Concern Score ¹	Population Trend, MO	Threats to Breeding, MO	Relative Density - Breeding, MO	Population Size, Global	Breeding Distribution, Global
GRASSLAND BIRDS	Eastern Kingbird	15	5	3	4	2	1
	Grasshopper Sparrow	15	5	4	3	2	1
	Henslow's Sparrow	17	2	4	5	4	2
	Bobolink	11	1	4	2	2	2
	Eastern Meadowlark	17	5	4	5	2	1
	Dickcissel	16	4	3	5	2	2
SAVANNA, WOODLAND, AND YOUNG-FOREST BIRDS	Northern Bobwhite	16	5	4	4	2	1
	Yellow-billed Cuckoo	16	5	3	5	2	1
	Chuck-will's-widow	16	5	3	4	2	2
	Eastern Whip-poor-will	18	5	3	5	3	2
	Chimney Swift	16	5	4	4	2	1
	Red-headed Woodpecker	17	5	3	5	3	1
	Eastern Wood-Pewee	14	3	3	5	2	1
	Bewick's Wren	17	5	5	3	2	2
	Brown Thrasher	15	4	3	5	2	1
	Eastern Towhee	15	4	3	4	2	2
	Field Sparrow	17	5	3	5	2	2
	Yellow-breasted Chat	13	3	3	4	2	1
	Orchard Oriole	13	2	3	5	2	1
	Blue-winged Warbler	15	3	3	4	3	2
	Prairie Warbler	18	5	3	5	3	2
FOREST BIRDS	Blue Jay	14	4	3	4	2	1
	Wood Thrush	14	3	3	4	2	2
	Worm-eating Warbler	15	2	3	5	3	2
	Prothonotary Warbler	13	3	3	2	3	2
	Kentucky Warbler	15	2	3	5	3	2
	Cerulean Warbler	18	5	4	4	3	2
WETLAND BIRDS	Green Heron	15	5	3	3	3	1
GENERALIST BIRDS	Common Grackle	16	5	4	5	1	1
SPECIAL CIRCUMSTANCE BIRDS ²	Ruffed Grouse	-	5	4	5	1	1
	Greater Prairie-Chicken	-	5	4	5	1	1
	King Rail	-	5	4	5	1	1
	Bachman's Sparrow	-	5	4	5	1	1
	Brown-headed Nuthatch	-	5	4	5	1	1

*Not all Focal Species are tracked in Heritage

¹ MO Concern Score = sum of other five scores: MO Population Trend, MO Threats to Breeding, MO Relative Density, Global Population Size, and Global Distribution. Each score's scale varies slightly, but in general 1=least concern/lowest threat level and 5=greatest concern/highest threat level.

² Special Circumstance Birds were not scored due to extremely low breeding populations caused by various circumstances. See SPECIAL CIRCUMSTANCE BIRDS section of the Missouri Conservation Bird Plan for more information.

PLANTS OF CONSERVATION CONCERN REPORTING FORM

NATURAL HERITAGE BOTANIST AND DATA MANAGER

EO Report Status (check one): New Update WITH mapping Update WITHOUT mapping

EO_ID: _____ EONUM: _____ Srank: _____ EO Rank: _____ Origin Subrank: _____

EO Rank Comments: _____

Reference(s): _____

Heritage Mapper/Date: _____ Mapsheet Name(s): _____

Heritage Map QC/Date: _____ Heritage Botanist/Date: _____

SPECIES and LOCATION (please attach a map)

Scientific Name: _____ Common Name: _____

County Name(s): _____ Survey Site Name: _____

Directions to Survey Site: _____

Coordinates: _____, _____ if UTM, NAD: 83 Zone: 15

Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____

Observer(s) (last name, first name): _____

EO [population] Data (actual and/or estimated number observed; condition: sterile or in bud/ flower/ fruit; evidence of disease, predation, or exotics; specimen/photo, etc.):

General Habitat Description: _____

OWNERSHIP

Managed Area/ Public Land Name(s): _____

Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL

Owner Name(s): _____

Owner Comments (address, phone number, etc.): _____

Management Comments: _____

Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

11/2020

Thank you for helping maintain the Missouri Natural Heritage Program.

Please return this form to: Natural Heritage Botanist, Science Branch, Missouri Dept. of Conservation,
P.O. Box 180, Jefferson City, MO 65102, 573-522-4115.

ANIMALS OF CONSERVATION CONCERN REPORTING FORM

NATURAL HERITAGE TAXA EXPERT AND DATA MANAGER

EO Report Status (check one): New Update WITH mapping Update WITHOUT mapping
EO_ID: _____ EONUM: _____ Bat Biological Use: _____ Srank: _____
EO Rank: _____ Origin Subrank: _____ EO Rank Comments: _____
Reference(s): _____
Heritage Mapper/Date: _____ Mapsheet Name(s): _____
Heritage Map QC/Date: _____ Heritage Taxa Expert/Date: _____

SPECIES and LOCATION (please attach a map)

Scientific Name: _____ Common Name: _____
County Name(s): _____ Survey Site Name: _____
Directions to Survey Site: _____

Coordinates: _____, _____ if UTM, NAD: 83 Zone: 15
Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____
Observer(s) (last name, first name): _____
EO [population] Data (number observed/trapped, condition: live/dead and age, evidence of reproduction, physical measurements, sampling methodology, person hrs, bat hibernaculum/maternity, specimen/photo, etc.):

General Habitat Description: _____

OWNERSHIP

Managed Area/ Public Land Name(s): _____
Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL
Owner Name(s): _____
Owner Comments (address, phone number, etc.): _____
Management Comments: _____
Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

11/2020

Thank you for helping maintain the Missouri Natural Heritage Program.

Please return this form to: Natural Heritage Coordinator, Science Branch, Missouri Dept. of Conservation, P.O. Box 180, Jefferson City, MO 65102, 573-522-4115; or MDC Heritage Taxa Expert if known.

TERRESTRIAL NATURAL COMMUNITY REPORTING FORM

NATURAL HERITAGE COMMUNITY ECOLOGIST AND DATA MANAGER

EO Report Status (check one): New Update WITH mapping Update WITHOUT mapping

EO_ID: _____ EONUM: _____ GELCODE: _____ Gelcode Conf. Level: 1 2 3

Reference(s): _____

Heritage Mapper/Date: _____ Mapsheet Name(s): _____

Heritage Map QC/Date: _____ Heritage Community Ecologist/Date: _____

NATURAL COMMUNITY TYPE and LOCATION (please attach a map)

Natural Community Name/Type: _____

County Name(s): _____ Survey Site Name: _____

Directions to Survey Site: _____

Coordinates: _____, _____ if UTM, NAD: 83 _____ Zone: 15 _____

Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____

Observer(s) (last name, first name): _____

Plant species composition (5-10 dominant or characteristic plant taxa by scientific name):

General Habitat Description (describe substrate, topography and vegetation structure including acreage. E.g., "Glade system with three openings of 1, 5, and 10 acres." If part of a natural community complex, describe what percentage of the mapped polygon is made up of this EO type. E.g., "30% of a complex with wet-prairie and freshwater marsh."): _____

Community Significance (check one): Significant Exceptional Notable

EO Rank: _____ EO Rank Comments (describe ecological integrity; i.e., resemblance to presettlement condition, lack of exotic species, presence of conservative species, floristic quality index values, etc.): _____

OWNERSHIP

Managed Area/ Public Land Name(s): _____

Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL

Owner Name(s): _____

Owner Comments (address, phone number, etc.): _____

Management Comments: _____

Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

Thank you for helping maintain the Missouri Natural Heritage Program.

11/2020

Please return this form to: Natural Heritage Community Ecologist, Statewide Resource Management Branch,
Missouri Dept. of Conservation, P.O. Box 180, Jefferson City, MO 65102, 573-522-4115.

AQUATIC NATURAL COMMUNITY REPORTING FORM

NATURAL HERITAGE AQUATIC COMMUNITY ECOLOGIST AND DATA MANAGER

EO Report Status (check one): New Update WITH mapping Update WITHOUT mapping

EO_ID: _____ EONUM: _____ Reference(s): _____

Heritage Mapper/Date: _____ Mapsheet Name(s): _____

Heritage Map QC/Date: _____ Heritage Aquatic Comm. Ecologist/Date: _____

NATURAL COMMUNITY TYPE and LOCATION (please attach a map)

Aquatic Natural Community Name/Type: _____

County Name(s): _____ Survey Site Name: _____

Directions to Survey Site: _____

Coordinates: _____, _____ if UTM, NAD: 83 Zone: 15

Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____

Observer(s) (last name, first name): _____

Aquatic assemblage (5-10 dominant or characteristic fish and/or aquatic invertebrate taxa by scientific name):

General Habitat Description (stream order, miles to headwaters, riparian corridor condition, composition of riffles and pools, and other physical factors):

Community Significance (check one): Significant Exceptional Notable

EO Rank: _____ EO Rank Comments (describe ecological integrity; i.e., resemblance to presettlement condition, lack of exotic species, presence of conservative species, biologic integrity index values, etc.):

OWNERSHIP

Managed Area/ Public Land Name(s): _____

Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL

Owner Name(s): _____

Owner Comments (address, phone number, etc.): _____

Management Comments: _____

Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

Thank you for helping maintain the Missouri Natural Heritage Program.

11/2020

Please return this form to: Natural Heritage Coordinator, Science Branch,
Missouri Dept. of Conservation, P.O. Box 180, Jefferson City, MO 65102, 573-522-4115.